

QY 121 CCAGGCAAGGGGCTGAGTGGGAGGATTTATATCATATGAGAAAGTAATAATACAT 180
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QY 181 GGAAGATCCGTGAAAGGGCCGATTCACCATCTCCAGAGCAATTCAGAAACGCTGTAT 240
DB 181 GGAAGATCCGTGAAAGGGCCGATTCACCATCTCCAGAGCAATTCAGAAACGCTGTAT 240
QY 241 CTGCAAAATGAACAGCTGTAGAGCTGAGACACGGCTGTATTAATCTGTGCAAAAAGAA 300
DB 241 CTGCAAAATGAACAGCTGTAGAGCTGAGACACGGCTGTATTAATCTGTGCAAAAAGAA 300
QY 301 GGCTACTGGGGCCAGGAAACCTGTGTCACCGTCTCTCA 339
DB 301 GGCTACTGGGGCCAGGAAACCTGTGTCACCGTCTCTCA 339

RESULT 2
LOCUS BD075295 372 bp DNA linear PAT 27-AUG-2002
DEFINITION Novel method for the production of anti-human antigen receptors and uses thereof.
ACCESSION BD075295
VERSION BD075295.1 GI:22620898
KEYWORDS JP 2001519824-A/24.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
REFERENCE 1 (bases 1 to 372)
AUTHORS Kufer,P. and Baum,T.
TITLE Novel method for the production of anti-human antigen receptors and uses thereof
JOURNAL Patent: JP 2001519824-A 24 23-OCT-2001;
MICROMET AG
OS Homo sapiens (human)
PN JP 2001519824-A/24
PD 23-OCT-2001
PF 14-APR-1998 JP 1998543494
PR 14-APR-1997 EP 97106109.8
PI PETER KUFER, TOBIAS RAUM
PC C07K16/00,C07K16/30,A61K39/395
CC Novel method for the production of anti-human antigen CC
receptors and uses
CC thereof
FH key Location/Qualifiers
FT CDS (1)..(372).
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Best Local Similarity 100.0%; Pred. No. 9,2e-100;
Matches 339; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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DB 61 TCTGTGCAAGCCCTGATTCACCTTGATGATTAAGCATGACATGGGTCGGCCAGGCT 120
QY 121 CCAGGCAAGGGGCTGAGTGGGAGTGCAGTATATCATATGAGAAAGTAATAATACAT 180
DB 121 CAGGCAAGGGGCTGAGTGGGAGTGCAGTATATCATATGAGAAAGTAATAATACAT 180
QY 181 GGAAGATCCGTGAAAGGGCCGATTCACCATCTCCAGAGCAATTCAGAAACGCTGTAT 240
DB 181 GGAAGATCCGTGAAAGGGCCGATTCACCATCTCCAGAGCAATTCAGAAACGCTGTAT 240

DB 181 GGAAGATCCGTGAAAGGGCCGATTCACCATCTCCAGAGCAATTCAGAAACGCTGTAT 240
QY 241 CTGCAAAATGAACAGCTGTAGAGCTGAGACACGGCTGTATTAATCTGTGCAAAAAGAA 300
DB 241 CTGCAAAATGAACAGCTGTAGAGCTGAGACACGGCTGTATTAATCTGTGCAAAAAGAA 300
QY 301 GGCTACTGGGGCCAGGAAACCTGTGTCACCGTCTCTCA 339
DB 301 GGCTACTGGGGCCAGGAAACCTGTGTCACCGTCTCTCA 339

RESULT 3
LOCUS AJ627239 339 bp mRNA linear PRI 30-JUN-2004
DEFINITION Homo sapiens partial mRNA for Igd immunoglobulin heavy chain variable region (IGHV3-30 gene), clone T3.3.13.
ACCESSION AJ627239
VERSION AJ627239.1 GI:49523851
KEYWORDS IGHV3-30 gene; immunoglobulin heavy chain; variable region.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
REFERENCE 1
AUTHORS Dono,M.
TITLE Characterization of a novel CD5+ B cell population
JOURNAL Unpublished
REFERENCE 2 (bases 1 to 339)
AUTHORS Dono,M.
TITLE Direct Submission
JOURNAL Submitted (10-FEB-2004) Dono M., Oncologia Medica C, Istituto Nazionale Ricerca sul Cancro, L.go R. Benzi 10, Italy, 16132, ITALY

FEATURES
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Best Local Similarity 93.8%; Pred. No. 2.1e-88;
Matches 317; Conservative 0; Mismatches 21; Indels 0; Gaps 0;

QY 2 AGGTGAGGTGTCGAGTCTGGGGGAGTCTGGTACAGCTGGGGGGTCCCTGAGACTCT 61
DB 2 AGGTGAGGTGTCGAGTCTGGGGGAGTCTGGTACAGCTGGGGGGTCCCTGAGACTCT 61
QY 62 CCGTGCAAGCCCTGATTCACCTTGATGATTAAGCATGACATGGGTCGGCCAGGCTC 121
DB 62 CCGTGCAAGCCCTGATTCACCTTGATGATTAAGCATGACATGGGTCGGCCAGGCTC 121
QY 122 CAGGCAAGGGGCTGAGTGGGAGTGCAGTATATCATATGAGAAAGTAATAATACAT 181
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Db 122 CAGGCAAGGGGCTGAGTGGGTGCGAGTTATATCATATGATGAGTAATAAATACTANG 181
QY 182 CAGACTCCGTGAAGGGCCGATTCCACCATCTCCAGAGCAATTCCAGAAACGGCTGATC 241
Db 182 CAGACTCCGTGAAGGGCCGATTCCACCATCTCCAGAGCAATTCCAGAAACGGCTGATC 241
QY 242 TGCAGTAATGAACAGCTGAGAGTGAAGACACGGCTGTATTAATCTGTGCGAAAAAGAG 301
Db 242 TGCAGTAATGAACAGCTGAGAGTGAAGACACGGCTGTATTAATCTGTGCGAAAAAGAG 301
QY 302 GCTACTGGGGCCAGGAAACCTGCTACCGTCTCTCA 339
Db 302 AGACTGGGGCCAGGAAACCTGCTACCGTCTCTCA 339

RESULT 4
AF035024 339 bp mRNA linear PRI 24-SEP-1999
LOCUS
DEFINITION Homo sapiens clone MCE11H myosin-reactive immunoglobulin heavy chain variable region mRNA, partial cds.
ACCESSION AF035024
VERSION AF035024.1 GI:5921600
KEYWORDS
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
REFERENCE 1 (bases 1 to 339)
AUTHORS Wu,X., Liu,B., Van der Merwe,P.L., Kalis,N.N., Berney,S.M. and Young,D.C.
TITLE Myosin-reactive autoantibodies in rheumatic carditis and normal fetus
JOURNAL Clin. Immunol. Immunopathol. 87 (2), 184-192 (1998)
MEDLINE 98277139
PUBMED 9614934
REFERENCE 2 (bases 1 to 339)
AUTHORS Young,D.C.
TITLE Direct Submission
JOURNAL Submitted (19-NOV-1997) Department of Pathology and Laboratory Medicine, University of Texas Health Science Center, 6431 Fannin, Houston, TX 77030, USA
FEATURES
source
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/clone="MCE11H"
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/db_xref="GI:5921601"
/translation="EVQLVESGGGVQPGSRLSCAASGFTSSVYAMHWROAPGK LEMWAVISDGSNKRYADSVKRFITSRDNTKLTLYLQMSLRADPTAVYVCARSYF KGGCTIVTSS"

ORIGIN
Query Match 88.7%; Score 300.6; DB 9; Length 339;
Best Local Similarity 92.9%; Pred. No. 3.6e-87;
Matches 315; Conservative 0; Mismatches 24; Indels 0; Gaps 0;

QY 1 GAGGTGCAAGCTGCTGAGTCTGGGGAGTGTGTGTAACGCTGGGGGCTCCTGAGACTC 60
Db 1 GAGGTGCAAGCTGCTGAGTCTGGGGAGTGTGTGTAACGCTGGGGGCTCCTGAGACTC 60
QY 61 TCCTGTGACGCGCTGTGATTCACCTTGAATGATTCATGCACTGACGCGGCGGCGGCT 120
Db 61 TCCTGTGACGCGCTGTGATTCACCTTGAATGATTCATGCACTGACGCGGCGGCGGCT 120
QY 121 CCAGGCAAGGGGCTGAGTGGGTGCGAGTTATATCATATGATGAGTAATAAATACTAT 180
Db 121 CCAGGCAAGGGGCTGAGTGGGTGCGAGTTATATCATATGATGAGTAATAAATACTAT 180

Db 121 CCAGGCAAGGGGCTGAGTGGGTGCGAGTTATATCATATGATGAGTAATAAATACTAT 180
QY 181 GGAAGTCCGTGAAGGGCCGATTCCACCATCTCCAGAGCAATTCCAGAAACGGCTGAT 240
Db 181 GGAAGTCCGTGAAGGGCCGATTCCACCATCTCCAGAGCAATTCCAGAAACGGCTGAT 240
QY 241 CTGCAATTAATGAACAGCTGAGAGTGAAGACACGGCTGTATTAATCTGTGCGAAAAAGAA 300
Db 241 CTGCAATTAATGAACAGCTGAGAGTGAAGACACGGCTGTATTAATCTGTGCGAAAAAGAA 300
QY 301 GGTACTGGGGCCAGGAAACCTGCTACCGTCTCTCA 339
Db 301 AACTACTGGGGCCAGGAAACCTGCTACCGTCTCTCA 339

RESULT 5
HSA308463 362 bp mRNA linear PRI 06-FEB-2002
LOCUS
DEFINITION Homo sapiens partial mRNA for immunoglobulin heavy chain variable region (IGHV3 gene), clone TEG4.
ACCESSION AJ308463
VERSION AJ308463.1 GI:12734095
KEYWORDS IGHV3 gene; immunoglobulin heavy chain; variable region.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
REFERENCE 1
AUTHORS Jacobin,M.J., Laroche-Traigneau,J., Little,M., Keller,A., Peter,K., Welschof,M., Nurdan,A. and Clouet-Sanchez,G.
TITLE Human IgG monoclonal anti-alpha (Iib)beta(3)-binding fragments derived from immunized donors using phage display
JOURNAL J. Immunol. 168 (4), 2035-2045 (2002)
MEDLINE 21681719
PUBMED 11823541
REFERENCE 2 (bases 1 to 362)
AUTHORS Clouet-Sanchez,G.
TITLE Direct Submission
JOURNAL Submitted (06-FEB-2001) Clouet-Sanchez G., UMR5533, Cnrs, Hopital Cardiologique, Av de Magellan, 33604 Pessac, FRANCE
FEATURES
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/db_xref="taxon:9606"
/clone="TEG4"
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/note="alphaIibbeta3 integrin specific antibody"
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/product="immunoglobulin heavy chain variable region"
/protein_id="CAC28931.1"
/db_xref="GI:12734096"
/translation="EVQLVESGGGVQPGSRLSCAASGFTSSVYAMHWROAPGK LEMWAVISDGSNKRYADSVKRFITSRDNTKLTLYLQMSLRADPTAVYVCARSYF DYGWGTIVTSSASTKA"
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ORIGIN
Query Match 86.3%; Score 292.6; DB 9; Length 362;
Best Local Similarity 92.8%; Pred. No. 1.5e-84;
Matches 320; Conservative 0; Mismatches 19; Indels 6; Gaps 1;

QY 1 GAGGTGCAAGCTGCTGAGTCTGGGGAGTGTGTGTAACGCTGGGGGCTCCTGAGACTC 60
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Best Local Similarity	92.7%;	Pred. No. 3.4e-84;		
Matches 319; Conservative	0;	Mismatches 19;	Indels 6;	Gaps 1;

2 AGGTGCAGCTGCTCAGTCTGCGGGGAGTGTGGTACAGCTGGGGGGTCCCTGAGACTCT 61
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94 AGGTGCAGCTGCTGAGTCTGGGGGAGCGGTGCTCCAGCCTGGAGGTCCCTGAGACTCT 153

62 CCTGTGACCTTGGATTCACTTTGATGATGATGCATGCGTGCGGCCAGSCTC 121
||||| | |||||
154 CCTGTGACGCTTGGATTCACTTTGATGATGATGCATGCGTGCGGCCAGSCTC 213

122 CAGCCAAAGGGGCTCAGATGGGTCAGTTATATCATATGATGGAAGTAATAATACATG 181
|||||
214 CAGCCAAAGGGGCTGAGTGGGTGGCACTTATCATATGATGGAAGCAATAATACTACG 273

102 CAGAC TCCG TGAAGGCCGAT TCAACA TCTCAGAGACAA TCCAGGACACGC TGTATC 241
274 CAGACTCCG TGAAGGCCGAT TCAACATCTCAGAGACAATTCCAAGAACAGCTGTATC 333

212 TGCATTTTCTGCGCCCTAGACGCTCTGGGACACGCCCTGTATTACTGTGCGAGAGAGAGC 257
262 TGGCAATGAACAGCCTGAGAGCTGACGACACCGCTGTGTATTACTGTGCGAGAGAGAGCCC 307
334 TGCATTTTCTGCGCCCTAGACGCTCTGGGACACGCCCTGTATTACTGTGCGAGAGAGAGC 393

394 GAGGGGACTACTGGGGCCAGGGAACTGTGTACCGTCTCTCA 437

Accession	Length	Type	Release Date
U05579	342 bp	mRNA	01-JUN-2004

variable region (IGHV-33 gene), clone T1.3.14.
AJ579107
AJ579107.1 GI:47846392

CE Homo sapiens (human)
SANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

1
Dono, M.
Characterization of a novel CD5+ B cell population

REFERENCE
2 (bases 1 to 342)
THORS
Dono, M.
Direct Submission
Submitted (07-MAY-2001) Dono M
ONCOLOGIA MEDICA C
TERRITUR

Source	Location/Qualifiers
1-342	
	Nazionale Ricerca sul Cancro, L. go R. Benzi 10, Genova, 16132, ITALY

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ORIGIN
Query Match      84.5%; Score 286.6; DB 9; Length 342;
Best Local Similarity 92.1%; Pred. No. 1.4e-82;
Matches 314; Conservative 0; Mismatches 24; Indels 3; Gaps 1;

QY 2 AGGTGAGCTGCTCGAGTCTGGGGAGTCTGTGTACAGCTTGGGGGTCCTGAGACTCT 61
DB 2 AGGTGAGCTGTGTGAGTCTGGGGAGGCGTGTGTCCAGCTGGAGGTCCCTGAGACTCT 61
QY 62 CCTGTGACCTCTTGATTCACCTTTGATGATTATTCATGCACTGGGTCGCCAGGCTC 121
DB 62 CCTGTGACCTCTTGATTCACCTTTGATGATTATTCATGCACTGGGTCGCCAGGCTC 121
QY 122 CAGGCAAGGGGCTGAGTGGGTGGCAGTTATATCATATGATGAGAAATAATACTATG 181
DB 122 CAGGCAAGGGGCTGAGTGGGTGGCAGTTATATGATGAGAAATAATACTATG 181
QY 182 CAGACTCCGTGAAGGGCCGATTCACATCTCCAGAGCAATTCAGAAACAGCGTGTATC 241
DB 182 CAGACTCCGTGAAGGGCCGATTCACATCTCCAGAGCAATTCAGAAACAGCGTGTATC 241
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DB 242 TCGAATGAACAGCCCTGAGAGCTGAGAGACAGCGCTGTGTATTAATCTGTGAAAAA---CG 298
QY 299 AAGGCTACTGGGGCCAGGGAACCTGTGTACCGTCTCTCA 339
DB 302 AAGCCACTGGGGCCAGGGAACCTGTGTACCGTCTCTCA 342

RESULT 10
HSE5310      398 bp      mRNA      linear      PRI 15-MAR-1993
LOCUS       H.sapiens rearranged Ig heavy chain variable region (VDJ).
DEFINITION  Z14168 X65741
ACCESSION  Z14168.1 GI:30999
VERSION    1
KEYWORDS   Ig D-segment; Ig heavy chain; Ig J-segment; Ig V-segment; Ig
           variable region; immunoglobulin.
SOURCE      Homo sapiens (human)
ORGANISM    Homo sapiens
REFERENCE   Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
AUTHORS     Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
TITLE       1 (bases 1 to 398)
           Cuisinier,A.M., Gauthier,L., Boubli,L., Fougereau,M. and
           Tonnelie,C.
           Mechanisms that generate human immunoglobulin diversity operate
           from the 8th week of gestation in fetal liver
JOURNAL     Eur. J. Immunol. 23 (1), 110-118 (1993)
MEDLINE    93122076
PUBMED     8419161
REFERENCE   2 (bases 1 to 398)
AUTHORS     Tonnelie,C.
TITLE       Direct Submission
SUBMITTED   (09-JUN-1992) C. Tonnelie, Centre d'Immunologie
Marseille-Juminy, Case 906, 13388 Marseille Cedex 9, FRANCE
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343..351
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ORIGIN
Query Match      84.2%; Score 285.6; DB 9; Length 398;
Best Local Similarity 91.1%; Pred. No. 3.1e-82;
Matches 319; Conservative 0; Mismatches 19; Indels 12; Gaps 1;

QY 2 AGGTGAGCTGCTCGAGTCTGGGGAGTCTGTGTACAGCTTGGGGGTCCTGAGACTCT 61
DB 49 AGGTGAGCTGTGTGAGTCTGGGGAGGCGTGTGTCCAGCTGGAGATCCCTGAGACTCT 108
QY 62 CCTGTGACCTCTTGATTCACCTTTGATGATTATGCACTGCATGCTGGTCCGCGAGGCTC 121
DB 109 CCTGTGACCTCTTGATTCACCTTTGATGATTATGCACTGCATGCTGCAGGCTC 168
QY 122 CAGGCAAGGGGCTGAGTGGGTGGCAGTTATATCATATGATGAGAAATAATACTATG 181
DB 169 CAGGCAAGGGGCTGAGTGGGTGGCAGTTATATCATATGATGAGAAATAATACTATG 228
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DB 229 CAGACTCCGTGAAGGGCCGATTCACATCTCCAGAGCAATTCAGAAACAGCGTGTATC 288
QY 242 TCGAATGAACAGCTGAGAGCTGAGACAGCGCTGTGTATTAATCTGTGCGAAA----- 294
DB 289 TCGAATGAACAGCTGAGAGCTGAGACAGCGCTGTGTATTAATCTGTGCGAAA----- 294
QY 295 -----AAGGAAGCTACTGGGGCCAGGGAACCTGTGTACCGTCTCTCA 339
DB 349 TCTACTACTTGTGACTGGGGCCAGGGAACCTGTGTACCGTCTCTCA 398

RESULT 11
AB067097      345 bp      mRNA      linear      PRI 02-JUL-2002
LOCUS       Homo sapiens IGH mRNA for immunoglobulin heavy chain VHDJ region,
DEFINITION  partial cds, clone:aim60184h.
ACCESSION  AB067097
VERSION    1
KEYWORDS   Homo sapiens (human)
SOURCE      Homo sapiens
ORGANISM    Homo sapiens
REFERENCE   Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
AUTHORS     Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
TITLE       1
           Akahori,Y., Iba,Y., Morino,K., Shinohara,M., Hiroo,Y., Kakita,M.,
           Suzuki,K., Torii,H., Ukai,Y., Honda,T., Katsumi,H., Okada,U.,
           Miura,K. and Kurosawa,Y.
           Construction and characterization of antibody libraries: isolation
           of therapeutic human antibodies and application to functional
           genomics
JOURNAL     Unpublished
REFERENCE   2 (bases 1 to 345)
AUTHORS     Kurosawa,Y.
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TITLE		Direct Submission	
JOURNAL		Submitted (25-JUN-2001) Yoshikazu Kurosawa, Institute for Comprehensive Medical Science, Fujita Health University, Immunology; Katsuhiko-cho, Toyokake, Aichi 470-1192, Japan (E-mail:kurosawa@fujita-hu.ac.jp, Tel:81-562-93-9387) Please visit our web site URL: http://www.fujita-hu.ac.jp/immunity/.	
COMMENT			
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		/note="mixture of tissues:tonsils, umbilical cords, peripheral blood and bone marrow"	
		1..345	
		/gene="IGH"	
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		/db_xref="GI:21670251"	
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ORIGIN			
Query Match	84.2%; Score 285.4; DB 9; Length 345;		
Best Local Similarity	92.1%; Pred. No. 3.5e-82;		
Matches 314; Conservative	0; Mismatches 21; Indels 6; Gaps 1;		
QY	1 GAGGTGCAGCTGCTCGAGTCTGGGGAGATCGTGTACAGCCTGGGGGTCCTGTAGACTC 60		
DB	1 GAGGTGCAGCTGCTGTGAGTCTGGGGAGAGCTGTGTCCAGCTGGAGGTCTCTAGACTC 60		
QY	61 TCTGTGCAGGCTCTGTGATTCACCTTGATGATTATGTCATGCACTGGGTCCGCAAGCT 120		
DB	61 TCTGTGCAGGCTCTGTGATTCACCTTCAGTATGTCATGCACTGGGTCCGCAAGCT 120		
QY	121 CCAGGCAGGGGCTGTGAGTGGGTGGCACTTATCATATGATGGAAGTAATAATCTACT 180		
DB	121 CCAGGCAGGGGCTGTGAGTGGGTGGCACTTATCATATGATGGAAGTAATAATCTACT 180		
QY	181 GCAGACTCCGTGAAGGGCCGATTCACATCTCCAGAGCAATTCMAAGACAGCTGTAT 240		
DB	181 GCAGACTCCGTGAAGGGCCGATTCACATCTCCAGAGCAATTCMAAGACAGCTGTAT 240		
QY	241 CTGCAATGAAACAGCTGTAGAGCTGAGGACACGGCTGTATTACTGTGCG-----AAA 294		
DB	241 CTGCAATGAAACAGCTGTAGAGCTGAGGACACGGCTGTATTACTGTGCG-----AAA 294		
QY	295 AAGGAAGGCTACTGGGGCCAGAGGAACCTGTGTACCCGCTC 335		
DB	295 AAGGAAGGCTACTGGGGCCAGAGGAACCTGTGTACCCGCTC 335		
QY	301 AACTTTAACTACTGGGGCCAGAGGAACCTGTGTACCCGCTC 341		
DB	301 AACTTTAACTACTGGGGCCAGAGGAACCTGTGTACCCGCTC 341		
RESULT 12			
LOCUS		HSA579114	
DEFINITION		HSA579114 336 bp mRNA linear PRI 01-JUN-2004	
ACCESSION		Homo sapiens partial mRNA for Igm immunoglobulin heavy chain	
VERSION		Variable region (IGHV-30 gene), clone TI.3.23.	
KEYWORDS		AJ579114.1 GI:47846406	
SOURCE		IGHV-30 gene; immunoglobulin heavy chain; variable region.	
ORGANISM		Homo sapiens (human)	
REFERENCE		Homo sapiens	
AUTHORS		Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;	
TITLE		Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.	
		Dono, M.	
		Characterization of a novel CD5+ B cell population	

JOURNAL	Unpublished
REFERENCE	2 (bases 1 to 336)
AUTHORS	Dono, M.
TITLE	Direct Submission
JOURNAL	Submitted (07-MAY-2003) Dono M., Oncologia Medica C., Istituto Nazionale Ricerca sul Cancro, L. go R. Benzi 10, Genova, 16132, ITALY
FEATURES	Location/Qualifiers
source	1..336
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	/chromosome="14"
	/clone="T1.3.23"
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gene	1..336
	/gene="IGHV3-30"
CDS	<1..336
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	/codon_start=1
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	/db_xref="GI:47846407"
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Best Local Similarity	92.3%; Pred. No. 4.1e-82;
Matches 312; Conservative 0; Mismatches 23; Indels 3; Gaps 1;	
Dn	2 AGGTGACAGCTGCTCGAGTCTGGGGGAGTCTGATGACAGCTGGGGGGTCCCTGAGACTCT 61
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Qy	62 CTTGTGAGGCTTGTGATTCACCTTTATGATTAATGCAATGCACTGGGTCCGCCAGGCTC 121
Dn	62 CTTGTGAGGCTTGTGATTCACCTTTATGATTAATGCAATGCACTGGGTCCGCCAGGCTC 121
Qy	122 CAGGCAAGGGGCTGAGTGGGGTGGCAGTTATATCATATGATGAGAAATATTAATATCTATG 181
Dn	122 CAGGCAAGGGGCTGAGTGGGGTGGCAGTTATATCATATGATGAGAAATATTAATATCTATG 181
Qy	182 CAGACTCCGTGAAGAGGCGCATTCACATCTCCAGAGACAATTCACACACCGCTGTATC 241
Dn	182 CAGACTCCGTGAAGAGGCGCATTCACATCTCCAGAGACAATTCACACACCGCTGTATC 241
Qy	242 TGCAGAAAGAACAGCTGTAGAGCTGAGAGACACGGCTGTATTAATGTCGCAAAAAGAG 301
Dn	242 TGCAGAAAGAACAGCTGTAGAGCTGAGAGACACGGCTGTATTAATGTCGCAAAAAGAG 301
Qy	302 GCTTACTGGGGCCAGGGAACCTGGTCAACCGTCTCTCTCA 339
Dn	299 GATTAAGGGGCGCGGGAACCTGGTCAACCGTCTCTCTCA 336
RESULT 13	
LOCUS	HSA300793 354 bp mRNA linear PRI 10-APR-2001
DEFINITION	Homo sapiens partial mRNA for immunoglobulin gamma heavy chain variable region (IGHV3-30), clone M2-45 (m2h1e45), Kawasaki disease patient.
ACCESSION	AF300793
VERSION	AF300793.1 GI:12733989
KEYWORDS	IGHV3-30 gene; immunoglobulin gamma heavy chain; kawasaki disease; variable region.
SOURCE	Homo sapiens (human)

ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
REFERENCE
1 (bases 1 to 354)
AUTHORS Leucht, S., Utenenteuther-Fischer, M.W., Gaeckle, G. and Fischer, P.
TITLE The B cell superantigen-like interaction of intravenous immunoglobulin (IVIg) with Fab fragments of V(H) 3-23 and 3-30/3-30.5 germ-line gene origin cloned from a patient with Kawasaki disease is enhanced after IVIG therapy
JOURNAL Clin. Immunol. 99 (1), 18-29 (2001)
MEDLINE 21185274
PUBMED 11286538
REFERENCE 2 (bases 1 to 354)
AUTHORS Fischer, P.
TITLE Direct Submision
JOURNAL Submitted (17-JAN-2001) Fischer P., Charite Children's Hospital, Molecular Biology Laboratory, Humboldt-University, Ziegelerstr. 5-9, Berlin, 10117, GERMANY
FEATURES
source
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/organism="Homo sapiens"
/mol_type="mRNA"
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/db_xref="taxon:9606"
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<1..>354
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Query Match 84.1%; Score 285.2; DB 9; Length 354;
Best Local Similarity 90.7%; Pred. No. 4.1e-82;
Matches 321; Conservative 0; Mismatches 18; Indels 15; Gaps 1;
QY 1 GAGGTGACGCTGCTGAGTCTGGGGAGTCTGTGTCAGGCTGGGGGTCCCTGAGACTC 60
DB 1 GAGGTGACGCTGCTGAGTCTGGGGAGTCTGTGTCAGGCTGGGGGTCCCTGAGACTC 60
QY 61 TCCTGTGACGCTCTGATTCACCTTTGATGATTATCCATGCACTGGGTCCGCCAGGCT 120
DB 61 TCCTGTGACGCTCTGATTCACCTTTGATGATTATCCATGCACTGGGTCCGCCAGGCT 120
QY 121 CCAGGCAAGGGGCTGAGTGGGTGGCACTTATCTATGATGAGAGTAAATATCTAT 180
DB 121 CCAGGCAAGGGGCTGAGTGGGTGGCACTTATCTATGATGAGAGTAAATATCTAT 180
QY 122 CCAGGCAAGGGGCTGAGTGGGTGGCACTTATCTATGATGAGAGTAAATATCTAT 180
DB 122 CCAGGCAAGGGGCTGAGTGGGTGGCACTTATCTATGATGAGAGTAAATATCTAT 180
QY 181 GCAGACTCCGTGAAAGGCCGATTACCATCTCCAGAGCAATTCAGAAACAGCTGTAT 240
DB 181 GCAGACTCCGTGAAAGGCCGATTACCATCTCCAGAGCAATTCAGAAACAGCTGTAT 240
QY 241 CTGCAATGAACAGCTGAGAGCTGAGACACGGCTGTGATTATCTGTGCGAAGAAAGAA 300
DB 241 CTGCAATGAACAGCTGAGAGCTGAGACACGGCTGTGATTATCTGTGCGAAGAAAGAA 300
QY 301 -----GGCTATCGGGGCGCAGGAAACCTTGCTACCGCTCTCTCA 339
DB 301 AGTAGAGGGGTTTGTACTACTGGGGCGCAGGAAACCTTGCTACCGCTCTCTCA 354

RESULT 14
AX300024
LOCUS AX300024 357 bp DNA linear PAT 30-NOV-2001
DEFINITION Sequence 2 from Patent WO0185797.
ACCESSION AX300024
VERSION AX300024.1 GI:17381484
KEYWORDS
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
REFERENCE
1 Rodriguez, M., Miller, D.J. and Pease, L.R.
TITLE Human igm antibodies with the capability of inducing remyelination, and diagnostic and therapeutic uses thereof particularly in the central nervous system
JOURNAL MAYO FOUNDATION FOR MEDICAL EDUCATION AND RESEARCH (US)
FEATURES
source
1..357
/organism="Homo sapiens"
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ORIGIN
Query Match 83.9%; Score 284.4; DB 6; Length 357;
Best Local Similarity 90.4%; Pred. No. 7.6e-82;
Matches 322; Conservative 0; Mismatches 16; Indels 18; Gaps 1;
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DB 2 AGGTGACAGCTGCTGAGTCTGGGGAGTCTGTGTCAGGCTGGGGGTCCCTGAGACTCT 61
QY 62 CTTGTGACGCTCTGATTCACCTTTGATGATTATCCATGCACTGGGTCCGCCAGGCTC 121
DB 62 CTTGTGACGCTCTGATTCACCTTTGATGATTATCCATGCACTGGGTCCGCCAGGCTC 121
QY 122 CAGGCAAGGGGCTGAGTGGGTGGCACTTATCTATGATGAGAGTAAATATCTATG 181
DB 122 CAGGCAAGGGGCTGAGTGGGTGGCACTTATCTATGATGAGAGTAAATATCTATG 181
QY 182 CAGACTCCGTGAAAGGCCGATTACCATCTCCAGAGCAATTCAGAAACAGCTGTATC 241
DB 182 CAGACTCCGTGAAAGGCCGATTACCATCTCCAGAGCAATTCAGAAACAGCTGTATC 241
QY 242 TCCAATGAACAGCTGAGAGCTGAGACACGGCTGTGATTATCTGTGCGAAGAAAG-- 298
DB 242 TCCAATGAACAGCTGAGAGCTGAGACACGGCTGTGATTATCTGTGCGAAGAAAG-- 298
QY 299 -----AAGCTACTGGGGCGCAGGAAACCTGGTCAACGCTCTCTCA 339
DB 302 CTGTAATTCCTTACTTGTACTACTGGGGCGCAGGAAACCTGGTCAACGCTCTCTCA 357
RESULT 15
AF115111
LOCUS AF115111 376 bp mRNA linear PRI 04-JAN-2000
DEFINITION Homo sapiens clone dns immunoglobulin heavy chain variable region mRNA, partial cds.
ACCESSION AF115111
VERSION AF115111.1 GI:4836305
KEYWORDS
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
REFERENCE
1 (bases 1 to 376)
AUTHORS Smithson, S.L., Sivistava, N., Huchins, W.A. and Westerink, M.A.
TITLE Molecular analysis of the heavy chain of antibodies that recognize the capsular polysaccharide of *Neisseria meningitidis* in hu-PBMC reconstituted SCID mice and in the immunized human donor

JOURNAL Mol. Immunol. 36 (2), 113-124 (1999)
MEDLINE 99305028
PUBMED 10378663
REFERENCE 2 (bases 1 to 376)
AUTHORS Smithson, S.L., Srivastava, N., Hutchins, W.A. and Westerink, M.A.J
TITLE Direct Submission
JOURNAL Submitted (17-DEC-1998) Medicine, Medical College of Ohio, 3000
 Arlington Ave., Toledo, OH 43614, USA
FEATURES Location/Qualifiers

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J_segment	313. .376
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ORIGIN	

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OM nucleic - nucleic search, using sw model

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Gapop 10.0 , Gapext 1.0

Searched: 4390206 seqs, 2959870667 residues

Total number of hits satisfying chosen parameters: 8780412

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%
Listing first 45 summaries

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9: geneseqn2003bs:*
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13: geneseqn2004bs:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	339	100.0	372	2	AAV68538
2	301.2	88.8	729	12	ADN07003
3	294.8	87.0	396	10	ADG61027
4	289.2	85.3	342	12	ADG75774
5	284.4	83.9	357	12	ADJ26655
6	284	83.8	351	12	ADJ22042
7	284	83.8	351	12	ADJ22043
8	283.8	83.7	405	10	ADC61031
9	282.4	83.3	351	12	ADJ22044
10	282.4	83.3	351	12	ADJ22041
11	282	83.2	345	12	ADJ22052
12	281	82.9	354	6	ABK88453
13	280.8	82.8	351	12	ADJ22046
14	280.8	82.8	351	12	ADJ22045
15	280.6	82.8	349	13	ADG84379
16	280.6	82.8	349	13	ADG85521
17	280.6	82.8	404	10	ADC61047
18	279.2	82.4	405	10	ADC61043
19	279.2	82.4	351	12	ADJ22047
20	279	82.3	405	10	ADC61039

ALIGNMENTS

21	278.4	82.1	381	2	AAV7236	AaX7236 Human D4.
22	278.4	82.1	414	2	AAV68537	AaV68537 Nucleotid
23	278.4	82.1	1630	3	AAZ50588	AaZ50588 HD708CPV-
24	278.4	82.1	1630	3	AAZ50587	AaZ50587 HD708CPV-
25	277.4	81.8	405	10	ADC61035	AdC61035 Human ant
26	277.2	81.8	339	4	AA503438	Aa503438 DNA encod
27	277.2	81.8	345	12	ADJ22049	AdJ22049 Anti-plat
28	277.2	81.8	2302	13	ACN41350	AcN41350 Human dta
29	276.6	81.6	369	2	AAV60380	AaV60380 Anti-TGF
30	276.2	81.5	400	6	ABJ38517	AbJ38517 Human col
31	275.8	81.4	405	10	ADC61051	AdC61051 Human ant
32	275.8	81.4	405	10	ADC61111	AdC61111 Human ant
33	275.6	81.3	339	4	AA503437	Aa503437 DNA encod
34	275	81.1	345	2	AAV60369	AaV60369 Anti-TGF
35	275	81.1	350	2	AAV60370	AaV60370 Anti-TGF
36	274.6	81.0	354	6	ABA94330	AbA94330 MAb 6-2 h
37	274.6	81.0	366	12	ADP22127	AdP22127 Human ant
38	274.4	80.9	351	6	ABK88457	AbK88457 Human ant
39	274.4	80.9	376	10	ADB28450	AdB28450 Human ant
40	274.4	80.9	675	4	AAH41661	AaH41661 Human int
41	274.4	80.9	675	4	AAH30007	AaH30007 Anti-IL8
42	274.2	80.9	349	13	ADG84391	AdG84391 Human ant
43	274.2	80.9	349	13	ADG85533	AdG85533 Anti-EPO-
44	274.2	80.9	405	10	ADC61055	AdC61055 Human ant
45	274.2	80.9	405	10	ADC61067	AdC61067 Human ant

RESULT 1

AAV68538 standard, DNA; 372 BP.

AAV68538;

16-FEB-1999 (first entry)

Nucleotide sequence of human D7.2 heavy chain variable region.

Human; D7.2 heavy chain variable region; receptor; antigen; tumour;

auto-immune disease; graft rejection; allergy; inflammatory disease;

endocrine disease; degenerative disease; ss.

Homo sapiens.

Key

CDS

W09846645-A2.

22-OCT-1998.

14-APR-1998; 98WO-BP002180.

14-APR-1997; 97EP-00106109.

(KUF6/) KUFER P.

(RAUM/) RAUM T.

Kufer P, Raum T;

WPI; 1998-594564/50.

P-PSDB; AAW80816.

Production of anti-human antigen receptors - by selecting a combination

of functionally rearranged VH and VL immunoglobulin chains expressed from

a recombinant vector.

Claim 9; Fig 8; 84pp; English.

CC This is the nucleotide sequence of the human D7.2 heavy chain variable
CC region, used in the method of the invention, for providing receptors that
CC can be used for targeting antigens in humans without being immunogenic
CC themselves. Such receptors can be used for treating diseases such as
CC tumors or auto-immune diseases, graft rejection after transplantation,
CC infectious diseases by targeting cellular receptors as well as allergic,
CC inflammatory, endocrine and degenerative diseases by targeting key
CC molecules involved in the pathological process
XX
SQ Sequence 372 BP; 86 A; 95 C; 110 G; 81 T; 0 U; 0 Other;

Query Match 100.0%; Score 339; DB 2; Length 372;
Best Local Similarity 100.0%; Pred. No. 5.6e-91;
Matches 339; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GAGGTGACACTGCTGAGTCTGGGGAGTCGTGTACACCTGGGGGTCCTTGAGACTC 60
DB 1 GAGGTGACACTGCTGAGTCTGGGGAGTCGTGTACACCTGGGGGTCCTTGAGACTC 60
QY 61 TCCTGTGACGCTCTGATTCACCTTTGATGATTATGATGATGATGATGATGATGATGAT 120
DB 61 TCCTGTGACGCTCTGATTCACCTTTGATGATTATGATGATGATGATGATGATGATGAT 120
QY 121 CCAGGCAAGGGGCTGGAGTGGGTGGGCAATTATATCATATGATGATGATGATGATGATGAT 180
DB 121 CCAGGCAAGGGGCTGGAGTGGGTGGGCAATTATATCATATGATGATGATGATGATGATGAT 180
QY 181 GAGAGTCCGTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 240
DB 181 GAGAGTCCGTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 240
QY 241 CTGCAATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 300
DB 241 CTGCAATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 300
QY 301 GGCTACTGGGGCCAGGGAACCTGTGTACCGTCTCTCA 339
DB 301 GGCTACTGGGGCCAGGGAACCTGTGTACCGTCTCTCA 339

RESULT 2
ADN07003
ID ADN07003 standard; DNA; 729 BP.

AC ADN07003;
XX
DT 01-JUL-2004 (first entry)
XX
DE Human BFGF bs-scFv antibody associated DNA.
XX
KW Bispecific single chain; bs-scFv; cancer;
XX epidermal growth factor receptor; EGFR; therapy; antibody; human; ds.
OS Homo sapiens.
XX
PN US2004071696-A1.
XX
PD 15-APR-2004.
XX
PF 04-APR-2003; 2003US-00406830.
XX
PR 05-APR-2002; 2002US-0370276P.
XX
PA (REGC) UNIV CALIFORNIA.
XX (FOXC-) FOX CHASE CANCER CENT.
XX
PI Adams GP, Horak EM, Weiner LM, Marks JD;
XX
DR WPI; 2004-328525/30.
XX
PT Novel bispecific antibody comprising first and second antibody joined to
XX each other and having binding specificity to different epitopes of
XX Epidermal Growth Factor Receptor protein, useful for treating cancer.
PT

XX
PS Claim 14; SEQ ID NO 20; 57pp; English.

CC The present invention provides bispecific single chain (bs-scFv) antibody
XX molecules which may be used to treat various forms of cancer associated
CC with the overexpression of the epidermal growth factor receptor (EGFR)
CC family. The invention is useful for specifically delivering an effector
CC molecule to a cell bearing a receptor from EGFR protein family chosen
CC from EGFR, HER2/neu, HER3 and HER4. The invention is useful in the
CC treatment of cancer. The present sequence is human EROR bs-scFv antibody
CC associated DNA used in the invention.
XX
SQ Sequence 729 BP; 155 A; 196 C; 216 G; 162 T; 0 U; 0 Other;

Query Match 88.8%; Score 301.2; DB 12; Length 729;
Best Local Similarity 93.2%; Pred. No. 1.4e-79;
Matches 315; Conservative 0; Mismatches 23; Indels 0; Gaps 0;

QY 2 AGGTGACACTGCTGAGTCTGGGGAGTCGTGTACACCTGGGGGTCCTTGAGACTCT 61
DB 8 AGGTGACACTGCTGAGTCTGGGGAGTCGTGTACACCTGGGGGTCCTTGAGACTCT 67
QY 62 CCTGTGACGCTCTGATTCACCTTTGATGATTATGATGATGATGATGATGATGATGATGAT 121
DB 62 CCTGTGACGCTCTGATTCACCTTTGATGATTATGATGATGATGATGATGATGATGATGAT 127
QY 122 CAGGCAAGGGGCTGGAGTGGGTGGGCAATTATATCATATGATGATGATGATGATGATGATGAT 181
DB 122 CAGGCAAGGGGCTGGAGTGGGTGGGCAATTATATCATATGATGATGATGATGATGATGATGAT 187
QY 182 CAGACTCCGTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 241
DB 182 CAGACTCCGTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 247
QY 242 TGCAATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 301
DB 242 TGCAATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 307
QY 302 GCTACTGGGGCCAGGGAACCTGTGTACCGTCTCTCA 339
DB 302 GCTACTGGGGCCAGGGAACCTGTGTACCGTCTCTCA 345

RESULT 3
ADC61027
ID ADC61027 standard; DNA; 396 BP.

AC ADC61027;
XX
DT 18-DEC-2003 (first entry)
XX
DE Human anti-CD45RB monoclonal antibody DNA, SEQ ID No 54.
XX
KW monoclonal antibody; CD45RB; antigen; cell proliferation;
XX immunosuppressive; neuroprotective; tissue rejection; organ rejection;
XX autoimmune disease; multiple sclerosis; human; anti-CD45RB; gene; ds.
OS Homo sapiens.
XX
PN WO2003048327-A2.
XX
PD 12-JUN-2003.
XX
PF 02-DEC-2002; 2002WO-US038540.
XX
PR 03-DEC-2001; 2001US-0337276P.
XX
PA (ABGE-) ABGENIX INC.
XX
PI Foltz I, Babcock J, Palathumpat V, Yang X, King CT;
XX
DR WPI; 2003-558954/52.
XX
PT P-PSDB; ADC61028.
DR

XX New anti-CD45RB monoclonal antibody, useful for treating an autoimmune
PT disease e.g. multiple sclerosis.
XX disclosure; SEQ ID NO 54; 121pp; English.
XX
XX The invention relates to a novel isolated monoclonal antibody comprising
CC a heavy chain having a sequence chosen from one of 22 fully defined
CC sequences comprising 135-147 amino acids, given in the specification, and
CC is specific for CD45RB antigen. The invention further relates to:
CC inhibiting cell proliferation associated with the expression of CD45RB
CC antigen; and treating a disease associated with the expression of a
CC CD45RB antigen in a patient. The monoclonal antibody has the activities
CC of immunosuppressive and neuroprotective. The monoclonal antibody is
CC useful for treating the rejection of a mammalian cell, tissue or organ,
CC especially an autoimmune disease in a mammal, especially a human e.g.
CC multiple sclerosis. This polynucleotide sequence represents a DNA
CC encoding a human protein of the anti-CD45RB monoclonal antibody of the
CC invention.
XX
XX Sequence 396 BP; 84 A; 92 C; 124 G; 96 T; 0 U; 0 Other;
SO
Query Match 87.0%; Score 294.8; DB 10; Length 396;
Best Local Similarity 92.0%; Pred. No. 9e-78;
Matches 311; Conservative 0; Mismatches 27; Indels 0; Gaps 0;
QY 2 AGGTGACGCTGCTCAGATCTGGGGGAGTCTGTATACAGCTGGGGGCTCCCTAGACTCT 61
DB 59 AGGTGACGCTGCTGAGATCTGGGGGAGGCGTGTCCAGCTGGGAGGTCCCTGAGACTCT 118
QY 62 CCTGTGACGCTGCTGAGATCTGATGATGATGATGATGATGATGATGATGATGATGATGAT 121
DB 119 CCTGTGACGCTGCTGAGATCTGATGATGATGATGATGATGATGATGATGATGATGATGAT 178
QY 122 CAGGCAAGGCGGCTGAGATGAGTGGGAGGAGTATATCATATGATGAGAGTAAATTAATCTATG 181
DB 179 CAGGCAAGGCGGCTGAGATGAGTGGGAGGAGTATATCATATGATGAGAGTAAATTAATCTATG 238
QY 182 CAGACTCCGCTGAGAGGCGGCTGATTCACATCTCCGAGAGCAATTCAGAGAGCGCTTATC 241
DB 239 CAGGCTCCGCTGAGAGGCGGCTGATTCACATCTCCGAGAGCAATTCAGAGAGCGCTTATC 298
QY 242 TGCATATGAAACAGCTGAGAGTGAAGACACGCGCTGATTAATCTGTCGAGAAAAGAGAG 301
DB 299 TGCATATGAAACAGCTGAGAGTGAAGACACGCGCTGATTAATCTGTCGAGAAAAGAGAG 358
QY 302 GCTACTGGGGCCAGGAGACCTGTGTCACCGTCTCTCA 339
DB 359 ACTACTGGGGCCAGGAGACCATGTCAACCGTCTCTCA 396
RESULT 4
ADQ75774
ID ADQ75774 standard; cDNA; 342 BP.
XX
XX ADQ75774;
XX
XX 07-OCT-2004 (first entry)
DB Anti-IL-8 antibody, VH 3-33, VH coding sequence.
XX
XX antibody; heavy chain, light chain, variable region; constant region; VH;
XX VL; monoclonal antibody; Mab; Interleukin-8; IL-8;
XX complementarity determining region; CDR; inflammation;
XX hyperproliferation; skin disorder; PPP; psoriasis; plaque psoriasis;
XX guttate type psoriasis; bullous skin disease; bullous pemphigoid;
XX contact dermatitis; eczema; erythematous; atopic dermatitis;
XX immune disorder; autoimmune disorder; inflammatory disease;
XX psoriatic arthritis; systemic scleroderma; sclerosis;
XX inflammatory bowel disease; IBD; Crohn's disease; ulcerative colitis;
XX acute lung injury; acute respiratory distress syndrome;
XX adult respiratory distress syndrome; meningitis; encephalitis; uveitis;
XX multiple myeloma; glomerulonephritis; nephritis; asthma; atherosclerosis;

KW leukocyte adhesion deficiency; multiple sclerosis; Raynaud's syndrome;
KW Sjogren's syndrome; juvenile onset diabetes; Reiter's disease;
KW Behcet's disease; immune complex nephritis; IGA nephropathy;
KW IgM polyneuropathy; immune-mediated thrombocytopenia;
KW acute idiopathic thrombocytopenic purpura; haemolytic anaemia;
KW chronic idiopathic thrombocytopenic purpura; lupus erythematosus;
KW myasthenia gravis; lupus nephritis; lupus erythematosus;
KW rheumatoid arthritis; ankylosing spondylitis; pemphigus; Graves' disease;
KW Hashimoto's thyroiditis; Wegener's granulomatosis; Omen's syndrome;
KW chronic renal failure; autoimmune thyroid disease;
KW acute infectious mononucleosis; HIV; herpes virus associated disease;
KW common cold; human rhinovirus; coronavirus; enterovirus; herpes virus;
KW influenza virus; parainfluenza virus; respiratory syncytial virus;
KW adenovirus infection; bacteria pneumonia; sepsis; cerebral stroke;
KW cerebral edema; ischemia-reperfusion injury; hepatitis C; thrombolysis;
KW cardiopulmonary bypass; percutaneous coronary intervention; PCI;
KW coronary artery bypass; cardiac transplantation;
KW isolated cerebral angitis; mononeuritis multiplex;
KW acute myocardial infarction; myocarditis; pericarditis;
KW Lieberman-Sachs endocarditis; chronic obstructive pulmonary disease; COPD;
KW alveolitis; obliterating bronchiolitis; cystic fibrosis;
KW allergic aspergillosis; Loeffler's syndrome; sclerosing cholangiolitis;
KW chronic cystitis; tubulo-interstitial nephritis;
KW severe acute respiratory syndrome; SARS; large vessel vasculitis;
KW giant cell arteritis; polymyalgia rheumatica; Takayasu arteritis;
KW medium-sized vessel vasculitis; polyarteritis nodosa;
KW localized polyarteritis nodosa; Kawasaki disease;
KW small vessel vasculitis; Churg-Strauss syndrome;
KW microcystic polyarteritis; cryoglobulinemic vasculitis;
KW leukocytoclastic angitis; secondary vasculitis; rheumatoid vasculitis;
KW systemic lupus erythematosus; isolated sacroiliitis; SAPHO syndrome;
KW discitis; postoperative discitis; subacute thyroiditis;
KW cicatricial pemphigoid; dermatitis herpetiformis;
KW subcorneal pustular dermatosis; epidermolysis bullosa acquisita; rosacea;
KW acute febrile dermatosis; granuloma annulare; Sweet's syndrome;
KW pyoderma gangrenosum; acne; acne conglobata; sarcoidosis;
KW relapsing polychondritis; familial Mediterranean fever; panniculitis;
KW erythema nodosum; Weber-Christian's disease; retroperitoneal fibrosis;
KW osteoporosis; osteolytic metastases; gastric cancer; colorectal cancer;
KW urine bladder cancer; tumour growth; melanoma; thyroid carcinoma;
KW transitional cell carcinoma; trichilemmoma; squamous cell carcinoma;
KW breast cancer; ss; gene.
XX
XX Homo sapiens.
OS
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XX Key Location/Qualifiers
FH CDS 1..342
FT /*tag= a
FT /*product= "VH 3-33 "
XX
XX MO2004058797-A2.
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XX 15-JUL-2004.
PD
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XX 16-DEC-2003; 2003MO-US040039.
PF
XX
XX 16-DEC-2002; 2002US-0433728P.
PR
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XX (MEDA-) MEDAREX INC.
PA (GENM-) GENMAB AS.
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XX Teeling J, Parren P, Baadsgaard ODMS, Hudson D, Petersen J;
PI WPI; 2004-534122/51.
XX P-PsDB; ADQ75776.
DR
XX
XX New isolated human monoclonal antibodies binding to human IL-8 having a
PT heavy and/or light chain encoded by a nucleic acid, useful for preventing
PT or treating cancer, immune disorders, inflammatory diseases and
PT angiogenic conditions.
XX
XX Claim 22; SEQ ID NO 9; 102pp; English.
PS
XX

This sentence encodes the heavy chain variable region (VH) of the isolated human monoclonal antibody (MAb), VH 3-33, which may be used as a framework in the generation of the MAb of the invention which binds to human interleukin (IL)-8. The MAb of the invention are useful for the prevention and/or treatment of an inflammatory or hyperproliferative skin disorder selected from psoriasis, psoriasis, including Plaque psoriasis and guttate type psoriasis, bullous skin diseases, such as bullous pemphigoid, contact dermatitis, eczema, erythematosis, and atopic dermatitis. The disorder is also an immune, autoimmune or inflammatory disease selected from the group consisting of psoriatic arthritis, systemic scleroderma and sclerosis, inflammatory bowel disease (IBD), Crohn's disease, ulcerative colitis, acute lung injury, such as acute respiratory distress syndrome or adult respiratory distress syndrome, meningitis, encephalitis, uveitis, multiple myeloma, glomerulonephritis, nephritis, asthma, atherosclerosis, leukocyte adhesion deficiency, multiple sclerosis, Raynaud's syndrome, Sjogren's syndrome, juvenile onset diabetes, Reiter's disease, Behcet's disease, immune complex nephritis, IGA nephropathy, IgM glomerulonephritis, immune-mediated thrombocytopenias, such as acute idiopathic thrombocytopenic purpura and chronic idiopathic thrombocytopenic purpura, hemolytic anaemia, myasthenia gravis, lupus nephritis, lupus erythematosus, rheumatoid arthritis (RA), ankylosing spondylitis, pemphigus, Graves' disease, Hashimoto's thyroiditis, small vessel vasculitides, such as Wegener's granulomatosis, Omen's syndrome, chronic renal failure, autoimmune thyroid disease, acute infectious mononucleosis, HIV, herpes virus associated diseases, human virus infections, such as common cold as caused by human rhinovirus, coronavirus, other enteroviruses, herpes virus, influenza virus, parainfluenza virus, respiratory syncytial virus or adenovirus infection, bacteria pneumonia, wounds, sepsis, cerebral stroke/cerebral edema, ischemia-reperfusion injury, and hepatitis C, where the ischemia-reperfusion injury is after thrombolysis, cardiopulmonary bypass, percutaneous coronary intervention (PCI), coronary artery bypass, or cardiac transplantation. The disorder is also selected from isolated cerebral angitis, mononeuritis multiplex, acute myocardial infarction, myocarditis, pericarditis, and Liebmans-Sachs endocarditis, chronic obstructive pulmonary disease (COPD), alveolitis, obliterating bronchiolitis, cystic fibrosis, allergic aspergillosis, Loffler's syndrome, sclerosing cholangiolitis, chronic cystitis, tubulointerstitial nephritis, severe acute respiratory syndrome (SARS), large vessel vasculitides (including giant cell arteritis, polyarteritis rheumatica, and Takayasu arteritis), medium-sized vessel vasculitides (including polyarteritis nodosa, localized polyarteritis nodosa, and Kawasaki disease), small vessel vasculitides (including Churg-Struss syndrome, microscopic polyarteritis, cryoglobulinemic vasculitis, and leukocytoclastic angitis), secondary vasculitides (including Rheumatoid vasculitis, and vasculitis associated with systemic lupus erythematosus or Sjogren's syndrome), isolated scleritis, the SAPHO syndrome, discitis (including postoperative discitis), subacute thyroiditis, clostridial pemphigoid, dermatitis herpetiformis, subcorneal pustular dermatosis, epidermolysis bullosa acquisita, rosacea, acute febrile dermatosis, granuloma annulare (including Sweet's syndrome), pyoderma gangrenosum, acne (including acne conglobata), sarcoidosis, relapsing polychondritis, Familial Mediterranean fever, panniculitis, erythema nodosum, Weber-Christian's disease, and retroperitoneal fibrosis, osteoporosis, osteolytic metastases, gastric cancer, colorectal cancer, and urine bladder cancer. They are also for inhibiting or preventing tumour growth, treating or preventing cancer, such as melanoma, thyroid carcinoma, transitional cell carcinoma, trichilemmoma, squamous cell carcinoma and breast cancer. The anti-idiotypic antibody is useful for detecting the level of human monoclonal antibody against IL-8 in a sample.

SQ Sequence 342 BP; 77 A; 83 C; 108 G; 74 T; 0 U; 0 Other;

Query Match 85.3%; Score 289.2; DB 12; Length 342;

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Matches 315; Conservative 0; Mismatches 23; Indels 2; Gaps 1;
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2 AGGTCAGCTGCTCGAGTCTGGGGAGTCTGGTACAGCCCTGGGGGTCCTGAGACTCT 61

Db 2 AGGTCAGCTGCTGAGTCTGGGGGAGGCGTGGTCCAGCCTGGGAGGTCCTGAGACTCT 61

62 CCTGTGCAGCCTCTGGATTACCTTTGATGATTATGCCATGCACTGGTCCGCCAGGCTC 121

Db	62	CGTGTGAAGGCTGTGGATTCAACCTTCAAGTACGTATGGATCATCATGGGATCGGCCAGGCTC	121
Qy	122	CAGGCAAGGGGCTGGAGTGGGTGGGAGTTATATCATATGATGGAAGTATTAATATCATATG	181
Db	122	CAGCAAGGGGCTGGAGTGGGTGGGAGTTATATGGTATATGATGGAAGTATTAATATCATATG	181
Qy	182	CAGACTCCGTGAAGGGCCGATTCACCATCTCCAGAGCAATTCGAAAGACAGCTGTATC	241
Db	182	CAGACTCCGTGAAGGGCCGATTCACCATCTCCAGAGCAATTCGAAAGACAGCTGTATC	241
Qy	242	TGGCAATGGAACAGCCGTGAAGCTGAGGACACGGCTGTATTAATCATGTGC--GAAAAAGGA	299
Db	242	TGCAATGGAACAGCTGTGAAGCCGAGAGCACCGCTGTATTAATCATGTGCAGAGATCTT	300
Qy	300	AGGCTACTGGGGCCAGGGAACCTTGCTACCGTCTCTCA	339
Db	302	TGACTACTGGGGCCAGGGAACCTTGCTACCGTCTCTCA	341

RESULT 5

ID	ADI26655	standard;	CDNA;	357	BP.

AC ADI26655;

DT 15-APR-2004 (first entry)

DE Human anti IGM antibody SHIGM22 VH CDNA.

KW Human; ss; antibody; IGM; remyelination; neuronal growth; autoantibody;

KW axon; glial cell proliferation;

KW spinal cord injury.

OS Homo sapiens.

PN US2003185827-A1.

PD 02-OCT-2003.

PF 13-NOV-2001; 2001US-00010729.

PR 29-APR-1994; 94US-00236520.

PR 07-JAN-1997; 97US-00779784.

PR 30-MAY-2000; 2000US-00580787.

XX (very) noisy form

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DR P-PSDB; ADI26654.

PT New human immunoglobulin M ar

PT domestic animal, such as mult

PS Example 8; Fig 35; 159pp; Eng
vvy

CC The invention relates to an a

CC antibody, where the peptide

stimulating remyelination of

CC monomers, active fragments, c

CC CNS, including oligodendrocyte

The invention relates to an antibody (I) produced by injecting an immunocompetent host with an antibody peptide, and harvesting the antibody, where the peptide comprises a human anti-IgM antibody fragment given in the specification, or active fragments. Also included are stimulating remyelination of central nervous system (CNS) axons in a mammal (comprising administering a monoclonal antibody, or mixtures, monomers, active fragments, or recombinant antibodies derived from it, characterised by their ability to bind structures and cells within the CNS, including oligodendrocytes), stimulating the proliferation of glial

cells in CNS axons in a mammal (comprising administering a monoclonal antibody, or mixtures, monomers, active fragments, or recombinant antibodies derived from it, characterised by their ability to bind structures and cells within the CNS), treating or preventing a demyelinating disease of the CNS in a mammal (comprising administering a monoclonal antibody, or mixtures, monomers, active fragments; or recombinant antibodies derived from it, characterised by their ability to bind structures and cells within the CNS, and to stimulate remyelination of axons of the CNS), stimulating, in vitro, the proliferation of glial cells from mixed cell culture, stimulating remyelination of CNS axons in a mammal, a DNA sequence (or degenerate variant of it) which encodes an antibody (or a peptide analogue, hapten, or active fragment of it, where the DNA sequence consists of a sequence encoding an anti-IGM antibody), a probe capable of screening for the antibody, an assay for screening drugs and other agents for the ability to modulate the production or mimic the activities of mAb SH1M22, SH1M46, or combinations of them, a recombinant virus transformed with recombinant antibody nucleic acids or vector, imaging a portion of the CNS using the antibody and diagnosing or monitoring demyelination and/or remyelination of the CNS comprising using CNS image. The antibody is used to stimulate remyelination of CNS axons, and to stimulate the proliferation of glial cells in CNS axons, optionally in vitro. The antibody is used to treat or prevent a demyelinating disease of the CNS in a human or domestic animal, such as multiple sclerosis, or a disease, other injury or dysfunction of the CNS, preferably the mammal is a mouse infected with Strain DA of Theiler's murine encephalomyelitis virus. The antibody is used to treat a spinal cord injury and used to screen drugs and other agents for the ability to modulate the production or mimic the activities of the antibody. The antibody can be used to image a portion of the CNS which can be used to diagnose or monitor demyelination and/or remyelination of the CNS. The present sequence is a cDNA for a variable region of a human anti-IGM antibody.

Sequence 357 BP; 81 A; 89 C; 107 G; 80 T; 0 U; 0 Other;

Query Match 83.9%; Score 284.4; DB 12; Length 357;
Best Local Similarity 90.4%; Pred. No. 1.1e-74;
Matches 322; Conservative 0; Mismatches 16; Indels 18; Gaps 1;

QY 2 AGGTGACGCTGCTGAGTCTGGGGAGTCTGTGACAGCTGGGGGCTCCCTGAGACTCT 61
DB 2 AGGTGACGCTGCTGAGTCTGGGGAGTCTGTGACAGCTGGGGGCTCCCTGAGACTCT 61
QY 62 CCGTGCAGGCTCTGATTCACCTTGATGATTAATGACATGACATGGGCTCCGACAGCTC 121
DB 62 CCGTGCAGGCTCTGATTCACCTTGATGATTAATGACATGACATGGGCTCCGACAGCTC 121
QY 122 CAGGCAAGGGGCTGAGTGGGTGGCAGTTATATCATATGATGAGTAATTAATTAATCTATG 181
DB 122 CAGGCAAGGGGCTGAGTGGGTGGCAGTTATATCATATGATGAGTAATTAATTAATCTATG 181
QY 182 CAGACTCCGTAAGAGGCGCATTCACATCTCCGAGACAAATTCAGAAACACGCTGTATC 241
DB 182 CAGACTCCGTAAGAGGCGCATTCACATCTCCGAGACAAATTCAGAAACACGCTGTATC 241
QY 242 TGCATTAATGAACACGCTGAGAGTCAACGCGCTGTATTAATCTGCGGAAAGAGCTGA 298
DB 242 TGCATTAATGAACACGCTGAGAGTCAACGCGCTGTATTAATCTGCGGAAAGAGCTGA 298
QY 299 -----AAGCTACTGCGGCGCAAGGAAACCTGTGACCGTCTCTCTCA 339
DB 302 CTGCTATTCCTTACTTGAATCACTGGGGGCGAGGGAACCTGTGACCGTCTCTCTCA 357

RESULT 6
AD122042
ID AD122042 standard; DNA; 351 BP.

AC AD122042;
XX
DT 22-APR-2004 (first entry)
XX
DE Anti-platelet autoantibody related heavy chain nucleotide H37 SEQ:5.

XX anti-platelet autoantibody; autoantibody; blood clotting inhibition;
KW thrombus; platelet adhesion inhibition; platelet aggregation inhibition;
KW thrombotic thrombocytopenic purpura; platelet aggregation inhibition;
KW idiopathic thrombocytopenic purpura; haemostatic; anticoagulant;
XX thrombotic; human; gene; ds.

OS Homo sapiens.
XX Synthetic.

PN WO2004005890-A2.

PD 15-JAN-2004.

PP 03-UTL-2003; 2003WO-US021304.

PR 03-UTL-2002; 2002US-0394352P.

PR 18-SEP-2002; 2002US-0411694P.

PA (UYPR-) UNIV PENNSYLVANIA.

PI Siegel DL;

DR WPI; 2004-142998/14.

PS P-PSDB; AD122095.

PS Claim 21; SEQ ID NO 5; 232bp; English.

XX The present invention describes a method (M1) for identifying an anti-platelet autoantibody (1) in a mammal. The autoantibody is detected by producing an antibody phage display library from B-lymphocytes obtained from the mammal, and screening the library to detect a phage that specifically binds with a platelet component, where the screening comprises panning the phage on intact platelets using competitive cell-surface panning. Also described: (1) an autoantibody identified by (M1); (2) an isolated nucleic acid encoding an anti-platelet autoantibody; (3) inhibiting (M2) blood clotting in a mammal having a thrombus or at risk of thrombus formation; (4) reversibly (M3) inhibiting blood clotting in a mammal having a thrombus or at risk of thrombus formation; (5) inhibiting (M4) binding of an anti-platelet autoantibody with a platelet component; (6) inhibiting (M5) platelet adhesion in a mammal; (7) treating (M6) thrombotic thrombocytopenic purpura in a mammal; (8) inhibiting (M7) platelet aggregation; (9) inhibiting (M8) platelet activation; (10) inhibiting (M9) platelet function; (11) inhibiting (M10) binding of an anti-platelet autoantibody, or its biologically active fragment with a platelet; (12) identifying (M11) a peptide that inhibits binding of an anti-platelet autoantibody with a platelet; (13) a peptide identified by the method of (12); (14) a peptide that specifically binds with an anti-platelet autoantibody; (15) treating (M12) idiopathic thrombocytopenic purpura (ITP) in a mammal; and (16) a kit for reversibly inhibiting blood clotting, inhibiting platelet aggregation, inhibiting platelet function or inhibiting platelet activation comprising an amount of an anti-platelet autoantibody, or its biologically active fragment that specifically binds with glycoprotein IIb/IIIa, where the autoantibody, or its fragment comprises an antigen binding region derived from an H4L4 anti-platelet autoantibody, the kit further comprising a peptide inhibitor of the binding with glycoprotein IIb/IIIa, and an applicator and an instructions for use. (1) has haemostatic, anticoagulant and thrombolytic activities. The autoantibodies (1) are useful for diagnosing and for developing therapeutics for diseases mediated by autoantibody binding with platelet antigens. (M6) and (M12) are useful for treating thrombotic thrombocytopenic purpura and idiopathic thrombocytopenic purpura, respectively. (M2) and (M3) are useful for inhibiting blood clotting. The present sequence is used in the exemplification of the present invention.

Sequence 351 BP; 79 A; 87 C; 108 G; 77 T; 0 U; 0 Other;

Query Match 83.8%; Score 284; DB 12; Length 351;
Best Local Similarity 90.9%; Pred. No. 1.5e-74;
Matches 318; Conservative 0; Mismatches 20; Indels 12; Gaps 1;

QY 2 AGGTGACGCTGCTGAGTCTGGGGAGTCTGTGACAGCTGGGGGCTCCCTGAGACTCT 61

Db 2 AGGTGAGCTGGTGGAGTCTGGGGGAGGCGTGGTCCAGCTGGAGGTCCCTGAGACTCT 61
QY 62 CCTGTGACACCTCTGTGATTCACCTTGTGATGATTAAGCCATGACCTGGTCCCGCAGGCTC 121
Db 62 CCTGTGACACCTCTGTGATTCACCTTGTGATGATTAAGCCATGACCTGGTCCCGCAGGCTC 121
QY 122 CAGGCAAGGGGCTGTGAGTGGTGGCAGTTATATCATATGATGGAAGTAATAACTATG 181
Db 122 CAGGCAAGGGGCTGTGAGTGGTGGCAGTTATATCATATGATGGAAGTAATAACTATG 181
QY 182 CAGACTCCGTGAAGGGCCGATTCACCATCTCCAGAGACAATTCAGAAACAGCTGTATC 241
Db 182 CAGACTCCGTGAAGGGCCGATTCACCATCTCCAGAGACAATTCAGAAACAGCTGTATC 241
QY 242 TGCATAATGAACAGCCTGAGACCTGAGACACCGCTGTATTAATCTGTGCAAGAGTGGG 298
Db 242 TGCATAATGAACAGCCTGAGACCTGAGACACCGCTGTATTAATCTGTGCAAGAGTGGG 301
QY 299 -----AAGGCTACTGGGGCCAGGGAACCTGGTCAACGCTCTCTCA 339
Db 302 TAGGAGCTTTTGACTACTGGGGCCAGGGAACCTGGTCAACGCTCTCTCA 351

RESULT 7
AD122043
ID AD122043 standard; DNA; 351 BP.

AC AD122043;
XX
DT 22-APR-2004 (first entry)

XX Anti-platelet autoantibody related heavy chain nucleotide H38 SEQ:6.

KM anti-platelet autoantibody; autoantibody; blood clotting inhibition;
KM thrombus; platelet adhesion inhibition;
KM thrombotic thrombocytopenic purpura; platelet aggregation inhibition;
KM idiopathic thrombocytopenic purpura; haemostatic; anticoagulant;
XX thrombolytic; human; gene; ds.

OS Homo sapiens.
OS Synthetic.

XX WO2004005890-A2.

XX 15-JAN-2004.

XX 03-JUL-2003; 2003WO-US021304.

XX 03-JUL-2002; 2002US-0394352P.

XX 18-SEP-2002; 2002US-0411694P.

XX (UYPE-) UNIV PENNSYLVANIA.

XX Siegel DL;

XX WPI; 2004-142998/14.

XX P-PSDB; AD122096.

XX Claim 21; SEQ ID NO 6; 232pp; English.

XX The present invention describes a method (M1) for identifying an anti-platelet autoantibody (I) in a mammal. The autoantibody is detected by producing an antibody phage display library from B-lymphocytes obtained from the mammal, and screening the library to detect a phage that specifically binds with a platelet component, where the screening comprises panning the phage on intact platelets using competitive cell-surface panning. Also described: (1) an autoantibody identified by (M1); (2) an isolated nucleic acid encoding an anti-platelet autoantibody; (3) inhibiting (M2) blood clotting in a mammal having a thrombus or at risk of thrombus formation; (4) reversibly (M3) inhibiting blood clotting in a mammal having a thrombus or at risk of thrombus formation; (5) inhibiting (M4) binding of an anti-platelet autoantibody with a platelet component;

CC (6) inhibiting (M5) platelet adhesion in a mammal; (7) treating (M6) thrombotic thrombocytopenic purpura in a mammal; (8) inhibiting (M7) platelet aggregation; (9) inhibiting (M8) platelet activation; (10) inhibiting (M9) platelet function; (11) inhibiting (M10) binding of an anti-platelet autoantibody, or its biologically active fragment with a platelet; (12) identifying (M11) a peptide that inhibits binding of an anti-platelet autoantibody with a platelet; (13) a peptide identified by the method of (12); (14) a peptide that specifically binds with an anti-platelet autoantibody; (15) treating (M12) idiopathic thrombocytopenic purpura (ITP) in a mammal; and (16) a kit for reversibly inhibiting blood clotting, inhibiting platelet aggregation, inhibiting platelet function or inhibiting platelet activation comprising an amount of an anti-platelet autoantibody, or its biologically active fragment that specifically binds with glycoprotein IIb/IIIa, where the autoantibody, or its fragment comprises an antigen binding region derived from an H4L4 anti-platelet autoantibody, the kit further comprising a peptide inhibitor of the binding with glycoprotein IIb/IIIa, and an applicator and an instructions for use. (1) has haemostatic, anticoagulant and thrombolytic activities. The autoantibodies (1) are useful for diagnosing and for developing therapeutics for diseases mediated by autoantibody binding with platelet antigens. (M6) and (M12) are useful for treating thrombotic thrombocytopenic purpura and idiopathic thrombocytopenic purpura, respectively. (M2) and (M3) are useful for inhibiting blood clotting. The present sequence is used in the exemplification of the present invention.

CC Sequence 351 BP; 79 A; 86 C; 109 G; 77 T; 0 U; 0 Other;

XX Query Match 83.8%; Score 284; DB 12; Length 351;

XX Best Local Similarity 90.9%; Pred. No. 1,5e-74;

XX Matches 318; Conservative 0; Mismatches 20; Indels 12; Gaps 1;

QY 2 AGGTGAGCTGGTGGAGTCTGGGGGAGGCGTGGTCCAGCTGGAGGTCCCTGAGACTCT 61

Db 2 AGGTGAGCTGGTGGAGTCTGGGGGAGGCGTGGTCCAGCTGGAGGTCCCTGAGACTCT 61

QY 62 CCTGTGACACCTCTGTGATTCACCTTGTGATGATTAAGCCATGACCTGGTCCCGCAGGCTC 121

Db 62 CCTGTGACACCTCTGTGATTCACCTTGTGATGATTAAGCCATGACCTGGTCCCGCAGGCTC 121

QY 122 CAGGCAAGGGGCTGTGAGTGGTGGCAGTTATATCATATGATGGAAGTAATAACTATG 181

Db 122 CAGGCAAGGGGCTGTGAGTGGTGGCAGTTATATCATATGATGGAAGTAATAACTATG 181

QY 182 CAGACTCCGTGAAGGGCCGATTCACCATCTCCAGAGACAATTCAGAAACAGCTGTATC 241

Db 182 CAGACTCCGTGAAGGGCCGATTCACCATCTCCAGAGACAATTCAGAAACAGCTGTATC 241

QY 242 TGCATAATGAACAGCCTGAGACCTGAGACACCGCTGTATTAATCTGTGCAAGAGTGGG 298

Db 242 TGCATAATGAACAGCCTGAGACCTGAGACACCGCTGTATTAATCTGTGCAAGAGTGGG 301

QY 299 -----AAGGCTACTGGGGCCAGGGAACCTGGTCAACGCTCTCTCA 339

Db 302 TAGGAGCTTTTGACTACTGGGGCCAGGGAACCTGGTCAACGCTCTCTCA 351

RESULT 8

AD61031
ID AD61031 standard; DNA; 405 BP.

XX AD61031;

XX 18-DEC-2003 (first entry)

XX Human anti-CD45RB monoclonal antibody DNA, SEQ ID NO 58.

XX monoclonal antibody; CD45RB; antigen; cell proliferation;

XX immunosuppressive; neuroprotective; tissue rejection; organ rejection;

XX autoimmune disease; multiple sclerosis; human; anti-CD45RB; gene; ds.

XX Homo sapiens.

PN MO2003048327-A2.
XX
PD 12-JUN-2003.
XX
XX 02-DEC-2002; 2002MO-US038540.
PF
XX 03-DEC-2001; 2001US-0337276P.
PR
XX (ABGE-) ABGENIX INC.
XX
XX Foltz I, Babcock J, Palathumpat V, Yang X, King CT;
PI
XX WPI: 2003-558954/52.
DR P-PSDB; ADCC1032.
XX
XX New anti-CD45RB monoclonal antibody, useful for treating an autoimmune
PT disease e.g. multiple sclerosis.
XX
XX Disclosure; SEQ ID NO 58; 121bp; English.
XX
XX The invention relates to a novel isolated monoclonal antibody comprising
CC a heavy chain having a sequence chosen from one of 22 fully defined
CC sequences comprising 135-147 amino acids, given in the specification, and
CC is specific for CD45RB antigen. The invention further relates to:
CC inhibiting cell proliferation associated with the expression of CD45RB
CC antigen; and treating a disease associated with the expression of a
CC CD45RB antigen in a patient. The monoclonal antibody has the activities
CC of immunosuppressive and neuroprotective. The monoclonal antibody is
CC useful for treating the rejection of a mammalian cell, tissue or organ,
CC especially for an autoimmune disease in a mammal, especially a human e.g.
CC multiple sclerosis. This polynucleotide sequence represents a DNA
CC encoding a human protein of the anti-CD45RB monoclonal antibody of the
CC invention.
XX
XX Sequence 405 BP; 84 A; 91 C; 134 G; 96 T; 0 U; 0 Other;
SQ
Query Match 83.7%; Score 283.8; DB 10; Length 405;
Best Local Similarity 91.1%; Pred. No. 1.8e-74;
Matches 316; Conservative 0; Mismatches 22; Indels 9; Gaps 1;
QY 2 AGGTGACAGCTGCTGAGTCTGGGGGAGTCCGTGTAACAGCTGGGGGCTCCCTGAGACTCT 61
DB 59 AGGTGACAGTGGTGAGTCTGGGGGAGGCGCTGCTCAAGCTGGGAGGCTCCCTAGACTCT 118
QY 62 CCTGTGACAGCTCTTGATTCACCTTTGATGATTAATGATGATGATGATGATGATGATGATGAT 121
DB 119 CCTGTGACAGCTCTTGATTCACCTTTGATGATTAATGATGATGATGATGATGATGATGATGAT 178
QY 122 CAGGCAAGGGGCTGGAGTGGGTGGAGTTATCATATGATGATGATGATGATGATGATGATGATGAT 181
DB 179 CAGGCAAGGGGCTGGAGTGGGTGGAGTTATGATGATGATGATGATGATGATGATGATGATGATGAT 238
QY 182 CAGACTCCGTGAAGGGCCGATTCACATCTCCAGAGACATTCGCAAGAACACCGCTGATTC 241
DB 239 CAGACTCCGTGAAGGGCCGATTCACATCTCCAGAGACATTCGCAAGAACACCGCTGATTC 298
QY 242 TGCATTAATGAACAGCTGAGAGCTGAGAGACAGCGCTGTGTTACTGTGCGAATAAGAGAG 301
DB 299 TGCATTAATGAACAGCTGAGAGCTGAGAGACAGCGCTGTGTTACTGTGCGAATAAGAGAG 358
QY 302 G-----CTACCTGGGGGCGAGGAACCTGTGTCACCGCTCTCTCA 339
DB 359 GTGACTTTGACTGTGGGGCGAGGAACCTGTGTCACCGCTCTCTCA 405

RESULT 9
AD122044
ID AD122044 standard; DNA; 351 BP.
XX
XX AC AD122044;
XX
XX DT 22-APR-2004 (first entry)
XX

DE Anti-platelet autoantibody related heavy chain nucleotide H39 SEQ:7.
XX
XX anti-platelet autoantibody; autoantibody; blood clotting inhibition;
KW thrombus; platelet adhesion inhibition;
KW thrombotic thrombocytopenic purpura; platelet aggregation inhibition;
KW idiopathic thrombocytopenic purpura; haemostatic; anticoagulant;
KW thrombolytic; human; gene; ds.
XX
XX Homo sapiens.
OS
XX Synthetic.
OS
XX MO2004005890-A2.
XX
XX 15-JUN-2004.
XX
XX 03-JUL-2003; 2003MO-US021304.
XX
XX 03-JUL-2002; 2002US-0394352P.
XX
XX 18-SEP-2002; 2002US-0411694P.
XX
XX (UYBE-) UNIV PENNSYLVANIA.
XX
XX Siegel DL;
XX
XX WPI: 2004-142998/14.
DR P-PSDB; AD122097.
XX
XX Claim 21; SEQ ID NO 7; 232bp; English.
XX
XX The present invention describes a method (M1) for identifying an anti-
CC platelet autoantibody (1) in a mammal. The autoantibody is detected by
CC producing an antibody phage display library from B-lymphocytes obtained
CC from the mammal, and screening the library to detect a phage that
CC specifically binds with a platelet component, where the screening
CC comprises panning the phage on intact platelets using competitive cell-
CC surface panning. Also described: (1) an autoantibody identified by (M1);
CC (2) an isolated nucleic acid encoding an anti-platelet autoantibody; (3)
CC inhibiting (M2) blood clotting in a mammal having a thrombus or at risk
CC of thrombus formation; (4) reversibly (M3) inhibiting blood clotting in a
CC mammal having a thrombus or at risk of thrombus formation; (5) inhibiting
CC (M4) binding of an anti-platelet autoantibody with a platelet component;
CC (6) inhibiting (M5) platelet adhesion in a mammal; (7) treating (M6)
CC thrombotic thrombocytopenic purpura in a mammal; (8) inhibiting (M7)
CC platelet aggregation; (9) inhibiting (M8) platelet activation; (10)
CC inhibiting (M9) platelet function; (11) inhibiting (M10) binding of an
CC anti-platelet autoantibody, or its biologically active fragment with a
CC platelet; (12) identifying (M11) a peptide that inhibits binding of an
CC anti-platelet autoantibody with a platelet; (13) a peptide identified by
CC the method of (12); (14) a peptide that specifically binds with an anti-
CC platelet autoantibody; (15) treating (M12) idiopathic thrombocytopenic
CC purpura (ITP) in a mammal; and (16) a kit for reversibly inhibiting blood
CC clotting, inhibiting platelet aggregation, inhibiting platelet function
CC or inhibiting platelet activation comprising an amount of an anti-
CC platelet autoantibody, or its biologically active fragment that
CC specifically binds with glycoprotein IIb/IIIa, where the autoantibody, or
CC its fragment comprises an antigen binding region derived from an H44b4
CC anti-platelet autoantibody, the kit further comprising a peptide
CC inhibitor of the binding with glycoprotein IIb/IIIa, and an applicator
CC and an instructions for use. (1) has haemostatic, anticoagulant and
CC thrombolytic activities. The autoantibodies (1) are useful for diagnosing
CC and for developing therapeutics for diseases mediated by autoantibody
CC binding with platelet antigens. (M6) and (M12) are useful for treating
CC thrombotic thrombocytopenic purpura and idiopathic thrombocytopenic
CC purpura, respectively. (M2) and (M3) are useful for inhibiting blood
CC clotting. The present sequence is used in the exemplification of the
CC present invention.
XX
XX Sequence 351 BP; 79 A; 86 C; 108 G; 78 T; 0 U; 0 Other;
SQ
Query Match 83.3%; Score 282.4; DB 12; Length 351;
Best Local Similarity 90.6%; Pred. No. 4.4e-74;
Matches 317; Conservative 0; Mismatches 21; Indels 12; Gaps 1;

QY	2	AGGTGACAGCTGCTCAGAGTCTGGGGGAGAGTGTGTGACGCTCGGGGGGCTCTGAGACTC	61
Db	2	AGGTGACAGCTGCTGAGAGTCTGGGGGAGAGTGTGTGACGCTCGGGGGGCTCTGAGACTC	61
QY	62	CTGTGTGACGCTCTGTGATTCACCTTGTATGATTAATGCAATGACTGTGGTCCGCAAGCTC	121
Db	62	CTGTGTGACGCTCTGTGATTCACCTTGTATGATTAATGCAATGACTGTGGTCCGCAAGCTC	121
QY	122	CAGGCAAGGGGCTGAGAGTGGTGTGGCAGTATATCATATGATGAGAGTAAATTAATGATG	181
Db	122	CAGGCAAGGGGCTGAGAGTGGTGTGGCAGTATATCATATGATGAGAGTAAATTAATGATG	181
QY	182	CAGACTCTCGTGAAAGGGCCGATTACATCTTCAGAGACAATTCAGAAGACGCTGTATC	241
Db	182	CAGACTCTCGTGAAAGGGCCGATTACATCTTCAGAGACAATTCAGAAGACGCTGTATC	241
QY	242	TGCAATATGAACACGCTGAGAGCTGAGAGACACGGCTGTGTATTACTGTGCGAAAAAG---	298
Db	242	TGCAATATGAACACGCTGAGAGCTGAGAGACACGGCTGTGTATTACTGTGCGAAGTGGGG	301
QY	299	-----AAGCTACTGGGGCTCAGGAAACCTGTGTCACGCTCTCTCTCA	339
Db	302	TAGCAGCTTTTGACTACTGGGGCAGAGGAACCTGTGTCACGCTCTCTCTCA	351

RESULT 10
AD122041
ID AD122041 standard; DNA; 351 BP.

AC	ADI22041;
XX	
DT	22-APR-2004 (first entry)

DE Anti-platelet autoantibody related heavy chain nucleotide H36 SEQ:4.

KM anti-platelet autoantibody; autoantibody; blood clotting inhibition;
KM thrombus; platelet adhesion inhibition;
KM thrombotic thrombocytopenic purpura; platelet aggregation inhibition;
KM idiopathic thrombocytopenic purpura; haemostatic; anticoagulant;
KM thrombolytic; human; gene; ds.

OS	Homo sapiens.
OS	Synthetic.

PN WO2004005890-A2.

PD 15-JAN-2004.

03-JUL-2003;

PR 03-JUL-2002; 2002US-0394352P.

XX	:
XX	:
	F
	C
	C
	E
	C
	E
	,
	E
	C
	C
	C
	C
	C
	C
	C
	x
	y
	f
	c
	v
	x
	e

[illegible]XX :
c
e
o
r
t

DR P-PSDB; ADI22094.

Claim 21; SEQ ID NO 4; 232pp; English.

CC The present invention describes method (M) for identifying an anti-platelet autoantibody (I) in a mammal. The autoantibody is detected by producing an antibody phage display library from B-lymphocytes obtained from the mammal, and screening the library to detect a phage that specifically binds with a platelet component, where the screening comprises panning the phage on intact platelets using competitive cell-surface panning. Also described: (1) an autoantibody identified by (M); (2) an isolated nucleic acid encoding an anti-platelet autoantibody; (3) inhibiting (M2) blood clotting in a mammal having a thrombus or at risk of thrombus formation; (4) reversibly (M2) inhibiting blood clotting in a mammal having a thrombus or at risk of thrombus formation; (5) inhibiting

(M4) binding of an anti-platelet autoantibody with a platelet component;
(M5) inhibiting (M5) platelet adhesion in a mammal; (7) treating (M6) thrombotic thrombocytopenic purpura in a mammal; (8) inhibiting (M7) platelet aggregation; (9) inhibiting (M8) platelet activation; (10) inhibiting (M9) platelet function; (11) inhibiting (M10) binding of an anti-platelet autoantibody, or its biologically active fragment with a platelet; (12) identifying (M11) a peptide that inhibits binding of an anti-platelet autoantibody with a platelet; (13) a peptide identified by the method of (12); (14) a peptide that specifically binds with an anti-platelet autoantibody; (15) treating (M12) idiopathic thrombocytopenic purpura (ITP) in a mammal; and (16) a kit for reversibly inhibiting blood clotting, inhibiting platelet aggregation, inhibiting platelet function or inhibiting platelet activation comprising an amount of an anti-platelet autoantibody, or its biologically active fragment that specifically binds with glycoprotein IIb/IIIa, where the autoantibody, or its fragment comprises an antigen binding region derived from an H4414 anti-platelet autoantibody, the kit further comprising a peptide inhibitor of the binding with glycoprotein IIb/IIIa, and an applicator and an instructions for use. (1) has haemostatic, anticoagulant and thrombolytic activities. The autoantibodies (1) are useful for diagnosing and for developing therapeutics for diseases mediated by autoantibody binding with platelet antigens. (M6) and (M12) are useful for treating thrombotic thrombocytopenic purpura and idiopathic thrombocytopenic purpura, respectively. (M2) and (M3) are useful for inhibiting blood clotting. The present sequence is used in the exemplification of the present invention.

Sequence 351 BP; 78 A; 87 C; 109 G; 77 T; 0 U; 0 Other;

Query Match	83.3%	Score 282.4	DB 12	Length 351
-------------	-------	-------------	-------	------------

Matches 317; Conservative 0; Mismatches 21; Indels 12; Gaps 1;

2 AGGTGCAGCTGCTCGAGTCTGGGGAGTCCGTGTACAGCCTGGGGTCCCTGAGACTCT 61

Db 2 AGTGCAGCTGTGAGTCTGGGGGAGGCCGTGTCACGCTGGAGGTCCCTGAGACTCT 61

62 CCTGTCAGCCTCTGGATTCACTTTGATGATTATGCCATGCACCTGGTCCGCCAGGCTC 121

Db 62 CCTGTGACGCTCTGGATTCACTTCAGTAGCTATGCTATGCACCTGGGTCGCCAGGCTC 121

122 CAGGCAAGGGGCTGGAGTGGGTGCAGTTATATCATATGATGGAAGTAATAAATACTATG 181

Db 122 CAGGCAAGGGCTGAGTGGTGCAGTTATCATATGATGGAAGTAATAATACTACG 181

182 CAGACTCCGTGAAGGCCGATTCAACCATCTCCAGAGACAATTCAGAACAACGCTGTATC 241

Db 182 CAGACTCCGTGAGGGCCGATTCAACCATCTCCAGAGACAATCCAAGAACGCTGTATC 241

242 TGC AATGACAGCCTGAGAGCTGAGGACACGGCTGTGTATTACTGTGCGAAAAAGC--- 298

Db 242 TGC AATGAACAGCCTGAGACCTGAGGACACGGCTGTGTATTACTGTGCGAGAGGTGGG 301

QY 299 -----AAGGCTACTGGGCCAGGGAACCTGTCTCACCCTCTCA 339

Db 302 TAGCAGCTTTGACTACTGGGCCAGGAACCTGTGTCACCGTCTCCTCA 351

10143

AD I 22052
ID AIT00063 - DNA - 34E BB

XX

XX
X

[illegible]

XX
XX

KW thrombus; platelet adhesion inhibition;

KW idiopathic thrombocytopenic purpura; haemostatic; anticoagulant;

CC the antibody (or fragments). The antibodies or fragments are used for
CC inhibiting proliferation, growth or differentiation of a normal human B
CC cells and to inhibit antibody production by B cells. They may also be
CC useful for treating autoimmune diseases, such as systemic lupus
CC erythematosus, psoriasis, multiple sclerosis, inflammatory bowel disease
CC (Crohn's disease), rheumatoid arthritis, and lymphoma (especially Non-
CC Hodgkin's lymphoma). The present sequence encodes the antibody 9F7 heavy
CC chain variable region VH.1
XX
SQ Sequence 354 BP; 80 A; 107 G; 76 T; 0 U; 0 Other:

Query Match 82.9%; Score 281; DB 6; Length 354;
Best Local Similarity 90.1%; Pred. No. 1.1e-73;
Matches 318; Conservative 0; Mismatches 20; Indels 15; Gaps 1;

QY 2 AGGTGAGTGTGCTCGAGTCTGGGGGAGTGTGTATAGCTGGGGGCTCCGAGACTCT 61
DB 2 AGGTGAGTGTGCTCGAGTCTGGGGGAGTGTGTATAGCTGGGGGCTCCGAGACTCT 61
QY 62 CCTGTGACAGCTCTGTGATTCACCTTGTATGATGATTCAGTGGTCCGCAAGGCTC 121
DB 62 CCTGTGACAGCTCTGTGATTCACCTTGTATGATGATTCAGTGGTCCGCAAGGCTC 121
QY 122 CAGGCAAGGGGCTGAGTGGTGGCAGTTATATCATATATGAGAAATTAATATCTATG 181
DB 122 CAGGCAAGGGGCTGAGTGGTGGCAGTTATATCATATATGAGAAATTAATATCTATG 181
QY 182 CAGACTCCGTTGAAAGGGCCGATTCACATCTCCAGAGCAAAATCCAGAACAGCTGTATC 241
DB 182 CAGACTCCGTTGAAAGGGCCGATTCACATCTCCAGAGCAAAATCCAGAACAGCTGTATC 241
QY 242 TGCATAATGAACAGCTGAGAGTGAAGACAGCGCTGTGTATTAATCTGGCAAAAAGAG 301
DB 242 TGCATAATGAACAGCTGAGAGTGAAGACAGCGCTGTGTATTAATCTGGCAAAAAGAG 301
QY 302 G-----CTACTGGGGCCAGGAAACCTTGTCACCGTCTCTCA 339
DB 302 GAGGTAAACCCCTTTGACTACTGCGGGCCAGGAAACCTTGTCACCGTCTCTCA 354

RESULT 13
AD122046
ID AD122046 standard; DNA; 351 BP.
XX
AC AD122046;
XX
DT 22-APR-2004 (first entry)
XX
DE Anti-platelet autoantibody related heavy chain nucleotide H41 SEQ.9.
XX
KW anti-platelet autoantibody; autoantibody; blood clotting inhibition;
XX thrombus; platelet adhesion inhibition;
KW thrombotic thrombocytopenic purpura; platelet aggregation inhibition;
KW idiopathic thrombocytopenic purpura; haemostatic; anticoagulant;
XX thrombolytic; human; gene; ds.
XX
OS Homo sapiens.
OS Synthetic.
OS
PN MO2004005890-A2.
XX
XX 15-JAN-2004.
XX
XX 03-JUL-2003; 2003WO-US021304.
XX
XX 03-JUL-2002; 2002US-0394352P.
XX 18-SEP-2002; 2002US-0411694P.
XX
XX (UYPE-) UNIV PENNSYLVANIA.
XX
XX Siegel DL;
XX
XX MPI; 2004-142998/14.
DR

DR P-PsDB; AD122099.
XX
XX Claim 21; SEQ ID NO 9; 232pp; English.
XX
XX The present invention describes a method (M1) for identifying an anti-
CC platelet autoantibody (1) in a mammal. The autoantibody is detected by
CC producing an antibody phage display library from B-lymphocytes obtained
CC from the mammal, and screening the library to detect a phage that
CC specifically binds with a platelet component, where the screening
CC comprises panning the phage on intact platelets using competitive cell-
CC surface panning. Also described: (1) an autoantibody identified by (M1);
CC (2) an isolated nucleic acid encoding an anti-platelet autoantibody; (3)
CC inhibiting (M2) blood clotting in a mammal having a thrombus or at risk
CC of thrombus formation; (4) reversibly (M3) inhibiting blood clotting in a
CC mammal having a thrombus or at risk of thrombus formation; (5) inhibiting
CC (M4) binding of an anti-platelet autoantibody with a platelet component;
CC (6) inhibiting (M5) platelet adhesion in a mammal; (8) inhibiting (M6)
CC thrombotic thrombocytopenic purpura in a mammal; (9) inhibiting (M7)
CC platelet aggregation; (9) inhibiting (M8) platelet activation; (10)
CC inhibiting (M9) platelet function; (11) inhibiting (M10) binding of an
CC anti-platelet autoantibody, or its biologically active fragment with a
CC platelet; (12) identifying (M11) a peptide that inhibits binding of an
CC anti-platelet autoantibody with a platelet; (13) a peptide identified by
CC the method of (12); (14) a peptide that specifically binds with an anti-
CC platelet autoantibody; (15) treating (M12) idiopathic thrombocytopenic
CC purpura (ITP) in a mammal; and (16) a kit for reversibly inhibiting blood
CC clotting, inhibiting platelet aggregation, inhibiting platelet function
CC or inhibiting platelet activation comprising an amount of an anti-
CC platelet autoantibody, or its biologically active fragment that
CC specifically binds with glycoprotein IIb/IIIa, where the autoantibody, or
CC its fragment comprises an antigen binding region derived from an H4L4
CC anti-platelet autoantibody, the kit further comprising a peptide
CC inhibitor of the binding with glycoprotein IIb/IIIa, and an applicator
CC and an instructions for use. (1) has haemostatic, anticoagulant and
CC thrombolytic activities. The autoantibodies (1) are useful for diagnosing
CC and for developing therapeutics for diseases mediated by autoantibody
CC binding with platelet antigens. (M6) and (M12) are useful for treating
CC thrombotic thrombocytopenic purpura and idiopathic thrombocytopenic
CC purpura, respectively. (M2) and (M3) are useful for inhibiting blood
CC clotting. The present sequence is used in the exemplification of the
CC present invention.
XX
SQ Sequence 351 BP; 78 A; 87 C; 108 G; 78 T; 0 U; 0 Other:

Query Match 82.8%; Score 280.8; DB 12; Length 351;
Best Local Similarity 90.3%; Pred. No. 1.3e-73;
Matches 316; Conservative 0; Mismatches 22; Indels 12; Gaps 1;

QY 2 AGTGCAGCTGTGAGTCTGGGGAGTGTGTATAGCTGGGGGCTCCGAGACTCT 61
DB 2 AGTGCAGCTGTGAGTCTGGGGAGTGTGTATAGCTGGGGGCTCCGAGACTCT 61
QY 62 CCTGTGACAGCTCTGTGATTCACCTTGTATGATGATTCAGTGGTCCGCAAGGCTC 121
DB 62 CCTGTGACAGCTCTGTGATTCACCTTGTATGATGATTCAGTGGTCCGCAAGGCTC 121
QY 122 CAGGCAAGGGGCTGAGTGGTGGCAGTTATATCATATATGAGAAATTAATATCTATG 181
DB 122 CAGGCAAGGGGCTGAGTGGTGGCAGTTATATCATATATGAGAAATTAATATCTATG 181
QY 182 CAGACTCCGTTGAAAGGGCCGATTCACATCTCCAGAGCAAAATCCAGAACAGCTGTATC 241
DB 182 CAGACTCCGTTGAAAGGGCCGATTCACATCTCCAGAGCAAAATCCAGAACAGCTGTATC 241
QY 242 TGCATAATGAACAGCTGAGAGTGAAGACAGCGCTGTGTATTAATCTGGCAAAAAG--- 298
DB 242 TGCATAATGAACAGCTGAGAGTGAAGACAGCGCTGTGTATTAATCTGGCAAAAAG--- 298
QY 299 -----AAGGCTACTGGGGCCAGGAAACCTTGTCACCGTCTCTCA 339
DB 302 TAGCAGCTTTTGACTACTGCGGGCCAGGAAACCTTGTCACCGTCTCTCA 351

RESULT 14
AD122045
ID AD122045 standard; DNA; 351 BP.
XX
AC AD122045;
XX
DT 22-APR-2004 (first entry)
XX
DE Anti-platelet autoantibody related heavy chain nucleotide H40 SEQ:8.
XX
KW anti-platelet autoantibody; autoantibody; blood clotting inhibition;
XX thrombus; platelet adhesion inhibition;
XX thrombotic thrombocytopenic purpura; platelet aggregation inhibition;
XX idiopathic thrombocytopenic purpura; haemostatic; anticoagulant;
XX thrombolytic; human; gene; ds.
XX
OS Homo sapiens.
OS Synthetic.
XX
PN MO2004005890-A2.
XX
PD 15-JAN-2004.
XX
PF 03-JUL-2003; 2003WO-US021304.
XX
PR 03-JUL-2002; 2002US-0394352P.
PR 18-SEP-2002; 2002US-0411594P.
XX
PA (UYPE-) UNIV PENNSYLVANIA.
XX
PI Siegel DL;
XX
DR WPI: 2004-142998/14.
DR P-PSDB; AD122098.
XX
PS Claim 21; SEQ ID NO 8; 232pp; English.
XX
CC The present invention describes a method (M1) for identifying an anti-platelet autoantibody (1) in a mammal. The autoantibody is detected by producing an antibody phage display library from B-lymphocytes obtained from the mammal, and screening the library to detect a phage that specifically binds with a platelet component, where the screening comprises panning the phage on intact platelets using competitive cell-surface panning. Also described: (1) an autoantibody identified by (M1); (2) an isolated nucleic acid encoding an anti-platelet autoantibody; (3) inhibiting (M2) blood clotting in a mammal having a thrombus or at risk of thrombus formation; (4) reversibly (M3) inhibiting blood clotting in a mammal having a thrombus or at risk of thrombus formation; (5) inhibiting (M4) binding of an anti-platelet autoantibody with a platelet component; (6) inhibiting (M5) platelet adhesion in a mammal; (7) treating (M6) thrombotic thrombocytopenic purpura in a mammal; (8) inhibiting (M7) platelet aggregation; (9) inhibiting (M8) platelet activation; (10) inhibiting (M9) platelet function; (11) inhibiting (M10) binding of an anti-platelet autoantibody, or its biologically active fragment with a platelet; (12) identifying (M11) a peptide that inhibits binding of an anti-platelet autoantibody with a platelet; (13) a peptide identified by the method of (12); (14) a peptide that specifically binds with an anti-platelet autoantibody; (15) treating (M12) idiopathic thrombocytopenic purpura (ITP) in a mammal; and (16) a kit for reversibly inhibiting blood clotting, inhibiting platelet aggregation, inhibiting platelet function or inhibiting platelet activation comprising an amount of an anti-platelet autoantibody, or its biologically active fragment that specifically binds with glycoprotein IIb/IIIa, where the autoantibody, or its fragment comprises an antigen binding region derived from an H4L4 anti-platelet autoantibody, the kit further comprising a peptide inhibitor of the binding with glycoprotein IIb/IIIa, and an applicator and an instructions for use. (1) has haemostatic, anticoagulant and thrombolytic activities. The autoantibodies (1) are useful for diagnosing and for developing therapeutics for diseases mediated by autoantibody binding with platelet antigens. (M6) and (M12) are useful for treating thrombotic thrombocytopenic purpura and idiopathic thrombocytopenic purpura, respectively. (M2) and (M3) are useful for inhibiting blood clotting. The present sequence is used in the exemplification of the

CC present invention.
XX
SQ Sequence 351 BP; 79 A; 88 C; 107 G; 77 T; 0 U; 0 Other;
XX
Query Match 82.8%; Score 280.8; DB 12; Length 351;
Best Local Similarity 90.3%; Pred. No. 1.3e-73;
Matches 316; Conservative 0; Mismatches 22; Indels 12; Gaps 1;
QY 2 AGGTGACAGTGTCTCAGATCTTGGGGAGATCTGTGTACAGCTTGGGGGTCCTCGAAGACTCT 61
DB 2 AGGTGACAGTGTGTGAGTCTGTGGGGAGCGGTGTCCAGCTTGGAGGTCCTCGAAGACTCT 61
QY 62 CCTGTGACAGCTTGTGATTCACCTTGTGATTCATGATTCAGTGCAGTGGTCCGACAGGCTC 121
DB 62 CCTGTGACAGCTTGTGATTCACCTTGTGATTCATGATTCAGTGCAGTGGTCCGACAGGCTC 121
QY 122 CAGGCAAGGGGCTGAGTGGGTGGGAGGATTCATATCATATGATGAAATTAATATCTATG 181
DB 122 CAGGCAAGGGGCTGAGTGGGTGGGAGGATTCATATCATATGATGAAATTAATATCTATG 181
QY 182 CAGACTCCGTGAAGGCGGATTCACCATCTCCAGAGACAATTCAGAAACAGCTGTATC 241
DB 182 CAGACTCCGTGAAGGCGGATTCACCATCTCCAGAGACAATTCAGAAACAGCTGTATC 241
QY 242 TGCATATGAACAGCTTGAGAGCTGAGAGACAGCGCTGTGTATTACTGTGGGAAAAAGG--- 298
DB 242 TGCATATGAACAGCTTGAGAGCTGAGAGACAGCGCTGTGTATTACTGTGGGAAAAAGG--- 298
QY 299 -----MAGCTTACTGGGGCCAGGGAAACCTGTGTACCGTCTCTCTCA 339
DB 302 TAGCGGCTTTGTGACTTACTGTGGGGCCAGGGAAACCTGTGTACCGTCTCTCTCA 351
RESULT 15
ADS84379
ID ADS84379 standard; DNA; 349 BP.
XX
AC ADS84379;
XX
DT 18-NOV-2004 (first entry)
XX
DE Human anti-EPO-R antibody heavy chain variable region DNA SEQ ID NO:18.
XX
KW human; erythropoietin receptor; EPO receptor;
KW erythropoietin receptor binding antibody; EPO receptor binding antibody;
KW antianemic; neuroprotective; vulnerrary; gene therapy; aplasia; anaemia;
KW wound healing; neural cell damage protection;
KW neural tissue damage protection; brain injury; spinal cord injury;
KW stroke; anti-erythropoietin receptor antibody; anti-EPO-R antibody; gene;
KW ds.
XX
OS Homo sapiens.
OS
PN WO2004035603-A2.
XX
PD 29-APR-2004.
XX
PF 14-OCT-2003; 2003WO-US0322243.
XX
PR 14-OCT-2002; 2002US-00269711.
PR 10-OCT-2003; 2003US-00684109.
XX
PA (ABBO) ABBOTT LAB.
XX
PI Devries PJ, Green LL, Ostrow DH, Reilly EB, Wieler J;
XX
DR WPI: 2004-348433/32.
XX
PT P-PSDB; ADS84380.
XX
PT New antibodies that bind to or activate an endogenous human
XX erythropoietin receptor, useful for diagnosing, preventing or treating
XX disorders associated with dysfunctional erythropoietin receptor, e.g.
PT anemia.

XX Claim 47; SEQ ID NO 18; 192pp; English.

PS The present invention describes an antibody or its fragment that binds to
CC or activates an endogenous activity of a human erythropoietin (EPO)
CC receptor in a mammal, but does not interact with a peptide having a
CC sequence of 30 amino acids (SEQ ID NO:1, AD84362). Also described: (1)
CC methods of modulating or activating an endogenous activity of a human EPO
CC receptor in a mammal, comprising administering to the mammal a
CC therapeutic amount of the above antibody or its fragment to modulate or
CC activate the receptor; (2) a method of treating a mammal suffering from
CC aplasia, comprising administering to the mammal a therapeutic amount of
CC the above antibody or its fragment to modulate or activate the receptor;
CC (3) a pharmaceutical composition comprising a therapeutic amount of the
CC above antibody or antibody fragment, and a pharmaceutical excipient; (4)
CC an isolated and purified polynucleotide sequence, and their fragments,
CC complements and degenerate codon equivalents; and (5) an isolated and
CC purified amino acid sequence, and their fragments. The EPO receptor
CC binding antibody has antianemic, neuroprotective and vulnerary
CC activities, and can be used in gene therapy. The compositions and methods
CC from the present invention can be used for modulating an endogenous
CC activity of a human EPO receptor or for treating mammals suffering from
CC aplasia or anaemia. They may also be used for identifying mammals having
CC a dysfunctional EPO receptor. The composition may also be used in
CC promoting wound healing or in protecting against neural cell and/or
CC tissue damage resulting from brain/spinal cord injury, stroke and the
CC like. The present sequence encodes a human anti-EPO-R antibody heavy
CC chain variable region, which is given in the exemplification of the
CC present invention.

XX
SQ Sequence 349 BP; 78 A; 85 C; 110 G; 76 T; 0 U; 0 Other;

Query Match 82.8%; Score 280.6; DB 13; Length 349;
Best Local Similarity 90.5%; Pred. 1.5e-73;
Matches 314; Conservative 0; Mismatches 24; Indels 9; Gaps 1;

QY 2 AGGTGAGCTGCTGAGTCTGGGGAGTGTGTACAGCTGGGGGTCCTGAGACTCT 61
DB |||||
2 AGGTGAGCTGCTGAGTCTGGGGAGTGTGTGTACAGCTGGGGGTCCTGAGACTCT 61
QY 62 CCTGTGACGCTCTGTGATTCACTTTGATGATTATGCCATGCACTGGGTCGCCAGGCTC 121
DB |||||
62 CCTGTGACGCTCTGTGATTCACTTTGATGATTATGCCATGCACTGGGTCGCCAGGCTC 121
QY 122 CAGGCAAGGGGGTGGAGTGGGAGTATATATATATGATGAGAGTAATAATACTATG 181
DB |||||
122 CAGGCAAGGGGGTGGAGTGGGAGTATATATATATGATGAGAGTAATAATACTATG 181
QY 182 CAGACTCCGTGAAGGGCCGATTCCATCTCCAGAGCAATTCCAGAAACGCTGTATC 241
DB |||||
182 CAGACTCCGTGAAGGGCCGATTCCATCTCCAGAGCAATTCCAGAAACGCTGTATC 241
QY 242 TGCATATGAACGCTGAGAGCTGAGAGACAGGCTGTATTACTGTGCGA----- 292
DB |||||
242 TGCATATGAACGCTGAGAGCTGAGAGACAGGCTGTATTACTGTGCGA----- 292
QY 293 AAAAGGAGGCTACTGGGGCCAGGAAACCTGGTCAACGCTTCCTCA 339
DB |||||
293 AAAAGGAGGCTACTGGGGCCAGGAAACCTGGTCAACGCTTCCTCA 339
DB 302 ACTACTTTACTACTGGGGCCAGGAAACCTGGTCAACGCTTCCTCA 348

Search completed: September 11, 2005, 20:25:57
Job time : 360.464 secs

Query Match 80.9%; Score 274.2; DB 4; Length 678;
Best Local Similarity 95.6%; Pred. No. 1.2e-71;
Matches 282; Conservative 0; Mismatches 13; Indels 0; Gaps 0;

QY 2 AGGTGACAGCTGCTGAGTCTGGGGAGTGTGTGTAACAGCTGGGGGGTCCCTGAGACTCT 61
DB 130 AGGTGACAGCTGCTGAGTCTGGGGAGTGTGTGTAACAGCTGGGGGGTCCCTGAGACTCT 189
QY 62 CCTGTGACAGCTGCTGAGTCTGGGGAGTGTGTGTAACAGCTGGGGGGTCCCTGAGACTCT 121
DB 190 CCTGTGACAGCTGCTGAGTCTGGGGAGTGTGTGTAACAGCTGGGGGGTCCCTGAGACTCT 249
QY 122 CAGGCAAGGGGCTGAGTGTGGTGGCACTTATATATGATGAGTAATAATACTATG 181
DB 250 CAGGCAAGGGGCTGAGTGTGGTGGCACTTATATATGATGAGTAATAATACTATG 309
QY 182 CAGACTCCGTGAAGGGCCGATTCACATCTCCAGAGCAATTCAGAAACACGCTGTATC 241
DB 310 CAGACTCCGTGAAGGGCCGATTCACATCTCCAGAGCAATTCAGAAACACGCTGTATC 369
QY 242 TGCAATGAAACAGCTGAGAGCTGAGACACGGCTGTATTAATTAATTCGCAAAA 296
DB 370 TGCAATGAAACAGCTGAGAGCTGAGACACGGCTGTATTAATTAATTCGCAAAA 424

RESULT 2
BG342203 788 bp mRNA linear EST 27-FEB-2001
LOCUS BG342203
DEFINITION 602462979P1 NIH_MGC_48 Homo sapiens cDNA clone IMAGE:4575931 5',
mRNA sequence.
ACCESSION BG342203
VERSION BG342203.1 GI:13148641
KEYWORDS EST.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
REFERENCE 1 (bases 1 to 788)
AUTHORS NIH-MGC http://mgi.nci.nih.gov/.
TITLE National Institutes of Health, Mammalian Gene Collection (MGC)
JOURNAL Unpublished (1999)
COMMENT Contact: Robert Strausberg, Ph.D.
Email: cgapbs-remail.nih.gov
Tissue Procurement: Louis M. Staudt, M.D., Ph.D.
cDNA Library Preparation: Ling Hong/Rubin Laboratory
cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LNLN)
DNA Sequencing by: Incyte Genomics, Inc.
Clone distribution: MGC clone distribution information can be
found through the I.M.A.G.E. Consortium/LNLN at:
http://image.llnl.gov
Plate: LINC1287 row: m column: 20
High quality sequence stop: 687.
Location/Qualifiers

FEATURES
source 1..788
location/Qualifiers

/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="IMAGE:4575931"
/tissue_type="primary B-cells from tonsils (cell line)"
/lab_host="DH10B (phage-resistant)"
/clone_lib="NIH_MGC_48"
/note="Organ: B-cells; Vector: pOTB7; Site 1: XhoI;
Site 2: EcoRI; cDNA made by oligo-dT priming.
Directionally cloned into EcoRI/XhoI sites using the
following 5' adaptor: GGCAAGAG(G). Size-selected >500bp
for average insert size 1.8kb. Library constructed by Ling
Hong in the laboratory of Gerald M. Rubin (University of
California, Berkeley) using ZAP-cDNA synthesis kit
(Stratagene) and Superscript II RT (Life Technologies).
Note: this is a NIH_MGC Library."

ORIGIN

Query Match

80.9%; Score 274.2; DB 4; Length 788;

Best Local Similarity 95.6%; Pred. No. 1.2e-71;
Matches 282; Conservative 0; Mismatches 13; Indels 0; Gaps 0;

QY 2 AGGTGACAGCTGCTGAGTCTGGGGAGTGTGTGTAACAGCTGGGGGGTCCCTGAGACTCT 61
DB 129 AGGTGACAGCTGCTGAGTCTGGGGAGTGTGTGTAACAGCTGGGGGGTCCCTGAGACTCT 188
QY 62 CCTGTGACAGCTGCTGAGTCTGGGGAGTGTGTGTAACAGCTGGGGGGTCCCTGAGACTCT 121
DB 189 CCTGTGACAGCTGCTGAGTCTGGGGAGTGTGTGTAACAGCTGGGGGGTCCCTGAGACTCT 248
QY 122 CAGGCAAGGGGCTGAGTGTGGTGGCACTTATATATGATGAGTAATAATACTATG 181
DB 249 CAGGCAAGGGGCTGAGTGTGGTGGCACTTATATATGATGAGTAATAATACTATG 308
QY 182 CAGACTCCGTGAAGGGCCGATTCACATCTCCAGAGCAATTCAGAAACACGCTGTATC 241
DB 309 CAGACTCCGTGAAGGGCCGATTCACATCTCCAGAGCAATTCAGAAACACGCTGTATC 368
QY 242 TGCAATGAAACAGCTGAGAGCTGAGACACGGCTGTATTAATTAATTCGCAAAA 296
DB 369 TGCAATGAAACAGCTGAGAGCTGAGACACGGCTGTATTAATTAATTCGCAAAA 423

RESULT 3
BG759649 870 bp mRNA linear EST 15-MAY-2001
LOCUS BG759649
DEFINITION 602713342P1 NIH_MGC_48 Homo sapiens cDNA clone IMAGE:4853338 5',
mRNA sequence.
ACCESSION BG759649
VERSION BG759649.1 GI:14070302
KEYWORDS EST.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
REFERENCE 1 (bases 1 to 870)
AUTHORS NIH-MGC http://mgi.nci.nih.gov/.
TITLE National Institutes of Health, Mammalian Gene Collection (MGC)
JOURNAL Unpublished (1999)
COMMENT Contact: Robert Strausberg, Ph.D.
Email: cgapbs-remail.nih.gov
Tissue Procurement: Louis M. Staudt, M.D., Ph.D.
cDNA Library Preparation: Ling Hong/Rubin Laboratory
cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LNLN)
DNA Sequencing by: Incyte Genomics, Inc.
Clone distribution: MGC clone distribution information can be
found through the I.M.A.G.E. Consortium/LNLN at:
http://image.llnl.gov
Plate: LINC1699 row: d column: 11
High quality sequence stop: 764.
Location/Qualifiers

FEATURES
source 1..870
location/Qualifiers

/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="IMAGE:4853338"
/tissue_type="primary B-cells from tonsils (cell line)"
/lab_host="DH10B (phage-resistant)"
/clone_lib="NIH_MGC_48"
/note="Organ: B-cells; Vector: pOTB7; Site 1: XhoI;
Site 2: EcoRI; cDNA made by oligo-dT priming.
Directionally cloned into EcoRI/XhoI sites using the
following 5' adaptor: GGCAAGAG(G). Size-selected >500bp
for average insert size 1.8kb. Library constructed by Ling
Hong in the laboratory of Gerald M. Rubin (University of
California, Berkeley) using ZAP-cDNA synthesis kit
(Stratagene) and Superscript II RT (Life Technologies).
Note: this is a NIH_MGC Library."

ORIGIN

Query Match 80.9%; Score 274.2; DB 4; Length 870;
Best Local Similarity 95.6%; Pred. No. 1.2e-71;

	Matches	282;	Conservative	0;	Mismatches	13;	Indels	0;	Gaps	0;
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Db	130	AGGTGACACTGTGTGATGTCTGGGGGAGGGGTGCTCAGCTCTGGGAGTCTCTGAACTCT	189							
Qy	62	CTGTGACAGCTCTGGATTCACTTTGATGATTATGCATGCACTGGTCCGCAAGCTC	121							
Db	190	CTGTGACAGCTCTGGATTCACTTCAATAGCTATGGCATGCACTGGGTCCGCAAGCTC	249							
Qy	122	CAGGCAAGGGGCTGAGTGGGGGAGTTATATCATATGAGGAAGTAAATTAATCTATG	181							
Db	250	CAGGCAAGGGGCTGAGTGGGGGAGTTATATCATATGAGGAAGTAAATTAATCTATG	309							
Qy	182	CAGACTCCGTGAAGGGCCGATTACCATCTCCAGAGCAATTTCCAAAGACGCTGATC	241							
Db	310	CAGACTCCGTGAAGGGCCGATTCACTCTCCAGAGCAATTTCCAAAGACGCTGATC	369							
Qy	242	TGCAAAATTAACGCTTGAGAGCTGAGGACAGGCTGTATTAATCTGTGTCGAAAA	286							
Db	370	TGCAATATTAACGCTTGAGAGCTGAGGACAGGCTGTATTAATCTGTGTCGAAAAG	424							

RESULT 4					
BF663281					
LOCUS	BF663281	964 bp	mRNA	linear	EST 21-DEC-2000
DEFINITION	602144406.1 NIH_MGC_48 Homo sapiens cDNA clone IMAGE:4297849 5',_				

ACCESSION	BF663281
VERSION	BF663281.1
KEYWORDS	GI:11937163
	ECM

SOURCE	Homo sapiens (human)
ORGANISM	Homo sapiens

REFERENCE
Mammalia; Eutheria; Primates; Carnivora; Hominoidea; Homo.
1 (bases 1 to 964)
AUTHORS
NIH-MGC <http://mgc.nci.nih.gov/>.
TITLE
National Institutes of Health, Mammalian Gene Collection (MGC)
JOURNAL
Unpublished (1999)
COMMENT
Contact: Robert Strausberg, Ph.D.

Tissue Procurement: Louis M. Staudt, M.D., Ph.D.
 CDNA Library Preparation: Jing Hong/Rubin Laboratory
 CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
 DNA Sequencing by: Incyte Genomics, Inc.
 Clone distribution: MGC clone distribution information can be
 found through the I.M.A.G.E. Consortium/LLNL at:
<http://image.llnl.gov>
 Plates: L1CM1152 row: k column: 02
 High quality sequence: stop: 693.

FEATURES
SOURCE

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/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="IMAGE:4297849"
/ligase_type="Primary B-cells from tonsils (cell line)"
/lab_host="DH10B (phage-resistant)"
/clone_id="NIH_MGC_48"
/note="Organ: B-cells; Vector: pOT87; Site_1: XhoI;
Site_2: EcoRI; cDNA made by oligo-dT priming.
directionally cloned into EcoRI/XhoI sites using the
following 5' adaptor: GGCACGAG). Size-selected >500bp
for average insert size 1.8kb. Library constructed by L.
Hong in the laboratory of Gerald M. Rubin (University of
California, Berkeley) using ZAP-CDNA synthesis kit
(Stratagene) and Superscript II RT (Life Technologies).
Note: this is a NIH MGC Library."

```

Query Match	80.9%	Score 274.2;	DB 2;	Length 964;
Best Local Similarity	95.6%;	Pred. No. 1,3e-71;		
Matches 282;	Conservative	0;	Mismatches 13;	Indels 0;
				Gaps 0;

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QY	AGGTGCAGCTGCTGAGATCTGGGGGAGTCCGTGTACAGCCCTGGGGGGGCTCGTAGACTCT	130
Db	AGGTGCAGCTGCTGAGATCTGGGGGAGTCCGTGTACAGCCCTGGGGGGGCTCGTAGACTCT	189
QY	CCTGTGCAGCCTCGATTCCCTTTGATGATTATGCATGCACTGGGTCCGCAGAGCTC	121
Db	CCTGTGCAGCCTCGATTCCCTTTGATGATTATGCATGCACTGGGTCCGCAGAGCTC	249
QY	CAGGCAAGGGGCTGAGATGGGTGCAGTTATATCATATGATGAAAGTAAATATCATATG	181
QY	CAGGCAAGGGGCTGAGATGGGTGCAGTTATATCATATGATGAAAGTAAATATCATATG	250
Db	CAGGCAAGGGGCTGAGATGGGTGCAGTTATATCATATGATGAAAGTAAATATCATATG	309
QY	CAGACTCCGTGAAGGGCCGATTTCACATCTTCAAGACAAATTCACAGAACACGCTGTATC	310
Db	CAGACTCCGTGAAGGGCCGATTTCACATCTTCAAGACAAATTCACAGAACACGCTGTATC	369
QY	TGCAAAATGAAACAGGCTGAGAGCTGAGACACAGGCTGTATTTACTGTGCGCAAAA	296
QY	TGCAAAATGAAACAGGCTGAGAGCTGAGACACAGGCTGTATTTACTGTGCGCAAAA	370
Db	TGCAAAATGAAACAGGCTGAGAGCTGAGACACAGGCTGTATTTACTGTGCGCAAAA	424

RESULT 5	BP974524	991 bp	mRNA	linear	EST 22-JAN-2001
LOCUS	602243430.1	NIH_MGC_48	Homo sapiens	CDNA clone	IMAGE:4334719 5',
DEFINITION	mRNA sequence.				

VERSION	BF974524.1	GI:12341739
KEYWORDS	EST.	
SOURCE	Homo sapiens (human)	

ORGANISM Homo sapiens
 Bukaryota; Metazoa;

REFERENCE
AUTHORS
TITLE
JOURNAL
COMMENT

1 (bases 1 to 991)
NIH-MGC <http://mgc.nci.nih.gov/>.
National Institutes of Health, Mammalian Gene Collection (MGC)
Unpublished (1999)
Contact: Robert Strausberg, Ph.D.
Email: cgabds-f@mail.nih.gov

CDNA Library Preparation: Ling Hong/Rubin Laboratory
CDNA Library Arrayed by: The I.M.A.G.E. Consortium (ILNL)
DNA Sequencing by: Incyte Genomics, Inc.
Clone distribution: MGC clone distribution information can be
found through the I.M.A.G.E. Consortium/ILNL at:
<http://image.llnl.gov>
plate: ILCLM204 row: k column: 08
High quality sequence stop: 688.
Location/Qualifiers
901

source

/mol_type="mRNA"
 /db_xref="taxon:9606"
 /clone="IMAGS:43344719"
 /tissue_type="Primary B-cells from tonsils (cell line)"
 /lab_host="DH10B (phage-resistant)"
 /clone_id="NIH_MGC_48"
 /note="Organ: B-cells; Vector: pOTB7; Site_1: XhoI;
 Site_2: EcoRI; cDNA made by oligo-dT priming.
 Directionally cloned into EcoRI/XhoI sites using the
 following 5' adaptor: GGACGAG(G). Size-selected >500bp
 for average insert size 1.8kb. Library constructed by Ling
 Hong in the laboratory of Gerald N. Rubin (University of
 California, Berkeley) using ZAP-cDNA synthesis kit
 (Stratagene) and Superscript II RT (Life Technologies).
 Note: this is a NIH_MGC Library."

Query Match	80.9%	Score 274.2	DB 4	Length 991
Best Local Similarity	95.6%	Pred. No. 1.3-71		
Matches 282; Conservative	0	Mismatches 13	Indels 0	Gaps 0

QY	2	AGGAGCAGCTCTGAGCTGTGGGGAGTCGATGTAACACTCGGGGGGCTCGAGACTC	61
Db	130	AGGTGCACTGTGAGATCTGGGGAGCGTGTCTCACTCGGAGATCTCTGAGACTCT	189
QY	62	CCTGTGACGCTCTGAGATTCACTTTGATGATTATGCCATGCACTGGGTCCGACGCTC	121
Db	190	CCTGTGACGCTCTGAGATTCACTTCATAGACTATGGCATGCACTGGGTCCGACGCTC	249
QY	122	CAGGCAAGGGGCTGAGATGGGTGGCAGTTATATCATATGATGGAAATTAATATCTATG	181
Db	250	CAGGCAAGGGGCTGAGATGGGTGGCAGTTATATCATATGATGGAAATTAATATATCTATG	309
QY	182	CAGACTCCGTGAAGGCCGATTCACCATCTCCAGAGACAATTCACAAGAACGCTGATC	241
Db	310	CAGACTCCGTGAAGGCCGATTCACCATCTCCAGAGACAATTCACAAGAACGCTGATC	369
QY	242	TGCAAAATTAACAAGCTGAGAGCTGAGAGACAAGCGCTGTATTAATCTGTGCGAAAA	286
Db	370	TGCAAAATTAACAAGCTGAGAGCTGAGAGACAAGCGCTGTATTAATCTGTGCGAAA	424

RESULT 6	
BP663436	
LOCUS	1010 bp mRNA linear EST 21-DEC-2000
DEFINITION	602144559361 NIH_MGC_48 Homo sapiens cDNA clone IMAGE:4297847 5',
	mRNA sequence.
ACCESSION	BF663436
VERSION	BF663436.1 GI:11937331
KEYWORDS	EST.
SOURCE	Homo sapiens (human)
ORGANISM	Homo sapiens

REFERENCE	1 (bases 1 to 1010)
AUTHORS	NIH-MGC http://mgc.nhl.nih.gov/
TITLE	National Institutes of Health, Mammalian Gene Collection (MGC)
JOURNAL	Unpublished (1999)
COMMENT	Contact: Robert Strausberg, Ph.D.

Email: cgaabbs-remail.nih.gov
Tissue Procurement: Louis M. Straud, M.D., Ph.D.
cDNA library Preparation: Ling Hong/Rubin Laboratory
cDNA library Arrayed by: The I.M.A.G.E. Consortium (LINL)
DNA Sequencing by: Incyte Genomics, Inc.
Clone distribution: MGC clone distribution information can be
found through the I.M.A.G.E. Consortium/LINL at:
<http://image.llnl.gov>
Place: LDCM152 row: j column: 24
High quality sequence set: 695.

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/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="IMAGE:4297847"
/tissue_type="primary B-cells from tonsils (cell line)"
/lab_host="DH08 (phage-resistant)"
/clone_lib="NH_MGC_48"
/notes="Organ: B-cells; Vector: pOTB1; Site_1: XhoI;
Site_2: EcoRI; C-DNA made by oligo-dT priming.
Directionally cloned into EcoRI/XhoI sites using the
following 5' adaptor: GGCAACGAG(G). Size-selected >500bp
for average insert size 1.8kb. Library constructed by Ling
Hong in the laboratory of Gerald N. Rubin (University of
California, Berkeley) using ZAP-cDNA synthesis kit
(Stratagene) and Superscript II RT (Life Technologies).
Note: this is a NIH-MGC library."

```

ORIGIN

Query Match	80.9%	Score 274.2	DB 2	Length 1010
Best Local Similarity	95.6%	Pred. No. 1.3e-71		
Matches 282; Conservative	0	Mismatches 13	Indels 0	Gaps 0

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Db	190	ccctgtagagctcttgagattcaccttcagtagctatgcatgcattggggtccggcagagctc	249
Qy	122	caggcaaggagcctgagagtgagtgagctgattatcatatgatgatgaaatpaaatactatg	181
Db	250	caggcaaggagcctgagagtgagtgagctgattatcatatgatgatgaaatpaaatactatg	309
Qy	182	cagactccgtagaaggagccgattcaccatctccagagacaattccaaagaacgcctgattc	241
Db	310	cagactccgtagaaggagccgattcaccatctccagagacaattccaaagaacgcctgattc	369
Qy	242	tgcaaatgaaacagccttgagaagctgagagacagcgctgtgtattatctgtgacgaaaaa	296
Db	370	tgcaaatgaaacagccttgagaagctgagagacagcgctgtgtattatctgtgacgaaaaa	424

RESULT 7	846 bp	mRNA	linear	EST 15-MAY-2001
LOCUS	Bg755572			
DEFINITION	Bg755572	60271625571 NIH_MGC_48	Homo sapiens	CDNA clone IMAGE:4856628 5',
ACCESSION	Bg755572	mRNA sequence.		
VERSION	Bg755572			
KEYWORDS	Bg755572.1	GI:14066225		
SOURCE	EST.			
	Homo sapiens (human)			

REFERENCE	AUTHORS	TITLE	JOURNAL	COMMENT
1	(bases 1 to 846)	NIH-MGC http://mgc.nci.nih.gov/ .	National Institutes of Health, Mammalian Gene Collection (MGC)	Unpublished (1999)
	Contact: Robert Strausberg, Ph.D.			

Email: cgaabs-r@mail.nih.gov
Tissue Procurement: Louis M. Straud, M.D., Ph.D.
cDNA Library Preparation: Ling Hong/Rubin Laboratory
cDNA Library Arrived by: The I.M.A.G.E. Consortium (LINL)
DNA Sequencing by: Incyte Genomics, Inc.
Clone distribution: MGC clone distribution information can be
found through the I.M.A.G.E. Consortium/LINL at:
<http://image.llnl.gov>
Plate: LDCM1707 row: m column: 13
High quality sequence set: 752.

FEATURES

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/clone_lib="NIH-MGC_48"
/note="Organ: B-cells; Vector: pOTB7; Site 1: XhoI;
Site 2: EcoRI; cDNA made by oligo-dT priming.
Directionally cloned into EcoRI/XhoI sites using the
following 5' adaptor: GGCACGAC(G). Size-selected >500bp
for average insert size 1.8kb. Library constructed by ligation
in the laboratory of Gerald M. Rubin (University of
California, Berkeley) using ZAP-cDNA synthesis kit
(Stratagene) and Superscript II RT (Life Technologies).
Note: this is a NIH-MGC Library."

```

ORIGIN

Query Match	80.6%	Score 273.2	DB 4	Length 846
Best Local Similarity	95.6%	Pred. 2.5e-71		
Matches 281	Conservative	0	Mismatches 13	Indels 0
2	AGGTGACACTGCTGCAGTCTGGGGGAGTCCGGTACACCTGGGGGGTCCCTGAGACCT	61		

Db 130 AGGTGACAGCTGGTGAAGTCTGGGGGAGGCGGTGTCAGCGCTGGAGAGCTCTGAGACTCT 189
Qy 62 CCTGTGACAGCTCTGATTCACCTTGATGATTATGCCATTCGACTGGGTCGGCCAGGCTC 121
Db 190 CCTGTGACAGCTCTGATTCACCTTGATGATTATGCCATTCGACTGGGTCGGCCAGGCTC 249
Qy 122 CAGGCAAGGGGCTGAGTGGGTGGGAGTATATCATATGATGAGTAATAATAACTATG 181
Db 250 CAGGCAAGGGGCTGAGTGGGTGGGAGTATATCATATGATGAGTAATAATAACTATG 309
Qy 182 CAGACTCCGTGAAGGGCCGATTCACCATCTCCAGAGCAATTCGAGAAACAGCTGTATC 241
Db 310 CAGACTCCGTGAAGGGCCGATTCACCATCTCCAGAGCAATTCGAGAAACAGCTGTATC 369
Qy 242 TGCAGATGAACAGCTGAGAGTGAAGAGCAAGGCTGTGATTACTGTGGGAAA 295
Db 370 TGCAGATGAACAGCTGAGAGTGAAGAGCAAGGCTGTGATTACTGTGGGAAA 423

RESULT 8

LOCUS BG756211 912 bp mRNA linear EST 15-MAY-2001
DEFINITION 602713521F1 NIH_MGC_48 Homo sapiens cDNA clone IMAGE:4853837 5',
mRNA sequence.
ACCESSION BG756211
VERSION BG756211.1 GI:1406864
KEYWORDS EST.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens

REFERENCE NIH-MGC <http://mgs.nci.nih.gov/>.
AUTHORS National Institutes of Health, Mammalian Gene Collection (MGC)
TITLE Unpublished (1999)
JOURNAL
COMMENT Contact: Robert Strausberg, Ph.D.
Email: cgaabs-remail.nih.gov
Tissue Procurement: Louis M. Staudt, M.D., Ph.D.
CDNA Library Preparation: Ling Hong/Rubin Laboratory
CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LNL)
DNA Sequencing by: Incyte Genomics, Inc.
Clone distribution: MGC clone distribution information can be
found through the I.M.A.G.E. Consortium/LNL at:
<http://image.llnl.gov>
Plate: LNCM1700 row: i column: 06
High quality sequence stop: 889.
Location/Qualifiers

FEATURES

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1..912
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/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="IMAGE:4853837"
/tissue_type="Primary B-cells from tonsils (cell line)"
/lab_host="DH10B (phage-resistant)"
/note="Organ: B-cells; Vector: pOT87; Site 1: XhoI;
Site 2: EcoRI; cDNA made by oligo-dT priming.
Directionally cloned into EcoRI/XhoI sites using the
following 5' adaptor: GGCACGAG(G). Size-selected >500bp
for average insert size 1.8kb. Library constructed by Ling
Hong in the laboratory of Gerald M. Rubin (University of
California, Berkeley) using ZAP-cDNA synthesis kit
(Stratagene) and Superscript II RT (Life Technologies).
Note: this is a NIH-MGC library."

ORIGIN

Query Match 80.4%; Score 272.6; DB 4; Length 912;
Best Local Similarity 95.3%; Pred. No. 3.8e-71;
Matches 281; Conservative 0; Mismatches 14; Indels 0; Gaps 0;
Qy 2 AGGTGACAGCTGCTGAGTCTGGGGAGTCTGTGTATACAGCTGGGGGCTCCTGAGACTCT 61
Db 121 AGGTGACAGCTGCTGAGTCTGGGGAGTCTGTGTATACAGCTGGGGGCTCCTGAGACTCT 180

Qy 62 CCTGTGACAGCTCTGATTCACCTTGATGATTATGCCATTCGACTGGGTCGGCCAGGCTC 121
Db 181 CCTGTGACAGCTCTGATTCACCTTGATGATTATGCCATTCGACTGGGTCGGCCAGGCTC 240
Qy 122 CAGGCAAGGGGCTGAGTGGGTGGGAGTATATCATATGATGAGTAATAATAACTATG 181
Db 241 CAGGCAAGGGGCTGAGTGGGTGGGAGTATATCATATGATGAGTAATAATAACTATG 300
Qy 182 CAGACTCCGTGAAGGGCCGATTCACCATCTCCAGAGCAATTCGAGAAACAGCTGTATC 241
Db 301 CAGACTCCGTGAAGGGCCGATTCACCATCTCCAGAGCAATTCGAGAAACAGCTGTATC 360
Qy 242 TGCAGATGAACAGCTGAGAGTGAAGAGCAAGGCTGTGATTACTGTGGGAAA 296
Db 361 TGCAGATGAACAGCTGAGAGTGAAGAGCAAGGCTGTGATTACTGTGGGAAA 415

RESULT 9

LOCUS BX344075 413 bp mRNA linear EST 08-APR-2004
DEFINITION BX344075 Homo sapiens PLACENTA COT 25-NORMALIZED Homo sapiens cDNA
clone CSOD1052YB21 5-PRIME, mRNA sequence.
ACCESSION BX344075
VERSION BX344075.2 GI:46279625
KEYWORDS EST.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens

REFERENCE Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homidae; Homo.
AUTHORS Li W.B., Gruber C., Jessup J., and Polayes D.
TITLE Full-length cDNA libraries and normalization
JOURNAL Unpublished (2001)
COMMENT On May 2, 2003 this sequence version replaced gi:30342243.
Contact: Genoscope
Genoscope - Centre National de Sequencage
2 rue Gaston Cremieux, CP 5706 - 91057 EVRY cedex - FRANCE
Email: seqref@genoscope.cns.fr, Web : www.genoscope.cns.fr
1st strand cDNA was primed with a NotI-oligo(dT) primer. Five prime
end enriched, double-strand cDNA was digested with Not I and cloned
into the Not I and EcoR V sites of the pCMVSPORT 6 vector. Library
was normalized. Library was constructed by Life Technologies, a
division of Invitrogen. This sequence belongs to sequence cluster
7198.x

For more information about this cluster, see
<http://www.genoscope.cns.fr/cdnafes-CS1A1013ZH11QPlc-7198.x>.
Location/Qualifiers

FEATURES

source

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/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="CSOD1052YB21"
/tissue_type="PLACENTA COT 25-NORMALIZED"
/note="1st strand cDNA was primed with a NotI-oligo(dT)
primer. Five prime end enriched, double-strand cDNA was
digested with Not I and EcoR V sites of the pCMVSPORT 6 vector. Library was normalized."

ORIGIN

Query Match 80.2%; Score 271.8; DB 5; Length 413;
Best Local Similarity 95.2%; Pred. No. 5.6e-71;
Matches 279; Conservative 1; Mismatches 13; Indels 0; Gaps 0;
Qy 2 AGGTGACAGCTGCTGAGTCTGGGGAGTCTGTGTATACAGCTGGGGGCTCCTGAGACTCT 61
Db 120 AGGTGACAGCTGCTGAGTCTGGGGAGTCTGTGTATACAGCTGGGGGCTCCTGAGACTCT 179
Qy 62 CCTGTGACAGCTCTGAGTCTGGGGAGTCTGTGTATACAGCTGGGGGCTCCTGAGACTCT 121
Db 180 CCTGTGACAGCTCTGAGTCTGGGGAGTCTGTGTATACAGCTGGGGGCTCCTGAGACTCT 239

Oy		122	CAGGCAAGGGCTGGAAGGGGTGGACGATTATATCATTAAGAAGTAAATAACTATG	181
Dd		240	CAGGCAAGGGCTGGAAGGGGTGGACGATTATATCATTAAGAAGTAAATAATAATG	299
Oy		182	CAGACTCCGTGAAGGGCCGATTACCAATCTCCAGACAATTCGAAGAACCGCTGTATC	241
Dd		300	CAGACTCCGTGAAGGGCCGATTACCAATCTCCAGACAATTCGAAGAACCGCTGTATC	359
Oy		242	TGCAATTAACAAGCTTAGAGCTGAGACAACGGCTGTGTATTACTGTGGAAA	294
Dd		360	TGCAATTAACAAGCTTAGAGCTGAGACAACGGCTGTGTATTACTGTGGAAA	412
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RESULT_10				
LOCUS AM401728				
DEFINITION UI-HF-BKO-aaf-f-12-0-UI.r1 NIH_MGC_36 Homo sapiens cDNA clone IMAGE:3053711 5', mRNA sequence.				
ACCESSION AM401728				
VERSION AM401728.1 GI:6920414				
KEYWORDS EST.				
SOURCE Homo sapiens (human)				
ORGANISM Homo sapiens				
REFERENCE Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.				
AUTHORS NIH-MGC http://mgc.nci.nih.gov/.				
TITLE National Institutes of Health, Mammalian Gene Collection (MGC) Unpublished (1999)				
JOURNAL Contact: Robert Strusberg, Ph.D.				
COMMENT Email: cgapbs-r@mail.nih.gov				
Eco RI site shown at the beginning of the sequence.				
Tissue Procurement: Louis W. Staudt, M.D., Ph.D.				
cDNA Library Preparation: M.B. Soares Lab				
CDNA Library Arrayed by: M.B. Soares Lab				
DNA Sequencing by: M.B. Soares Lab				
Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/BLNI at:				
www.bio.lnlnl.gov/bdbfp/image.html				
Seq primer: M13 Forward.				
<hr/>				
FEATURES				
source Location/Qualifiers				
1..516				
/organism="Homo sapiens"				
/mol_type="mRNA"				
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/clone="IMAGE:3053711"				
/tissue_type="lymph"				
/cell_type="germinal center B cells"				
/lab_host="DH10B (LT1)"				
/clone_lib="NIH_MGC_36"				
/note="Vector: pUT73-Pac; Site_1: NotI; Site_2: Eco RI; Constructed from size fractionated cytoplasmic mRNA (0.5-1.5kb). Directionally cloned. Cells provided by Louis M. Staudt, Ph.D. library preparation by Maria de Fatima Bonaldo, Ph.D. and M. Bento Soares, Ph.D."				
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ORIGIN				
Query Match 79.8%; Score 270.6; DB 2; Length 516;				
Best Local Similarity 95.2%; Pred. No. 1,4e+70;				
Matches 279; Conservative 0; Mismatches 14; Indels 0; Gaps 0;				
Oy		2	AGTGACAGCTGCTCGAGTCTGGGGGAGTCTGGTACAGCTGGGGGGTCCCTGACACTCT	61
Dd		132	AGGTGCACTGATGAGTCTGGGGGAGCGTGGTCCAGCTGGGAGGTCCCTGACACTCT	191
Oy		62	CCTGTGAGAGCCTTCGGATTCACTTTGATGATTATGCCATGACCTGGGTCCGCAGGCTC	121
Dd		192	CCTGTGAGAGCCTTCGGATTCACTTCAGTAGCTATGCTATGACATGGGTCCGCAGGCTC	251
Oy		122	CAGGCAAGGGCTGGAAGGGGTGGACGATTATATCATTAAGAAGTAAATAACTATG	181
Dd		252	CAGGCAAGGGCTGGAAGGGGTGGACGATTATATCATTAAGAAGTAAATAATAACTAG	311

QY	182	CAGACTCCGTGAAGGGCCGATTCACATCTCCAGAGCAATTCCAGAAACAGCGTGTATC	244
Db	312	CAGACTCCGTGAAGGGCCGATTCACATCTCCAGAGCAATTCCAGAAACAGCGTGTATC	371
QY	242	TGCAATATGAACAGCGCTGAGAGCTGAGGACAGAGCGGTGTGTATTACTGTGCGAAA	294
Db	372	TGCAATATGAACAGCGCTGAGAGCTGAGGACAGAGCGGTGTGTATTACTGTGCGAAA	424
RESULT 11			
LOCUS	BQ420418	899 bp	mRNA
DEFINITION	AGENCOURT 7827143 NIH_MGC_92 Homo sapiens	linear	EST 23-MAY-2002
ACCESSION	BQ420418		cdna IMAGE:6014112
VERSION	BQ420418.1	GI:21115733	
KEYWORDS	EST.		
SOURCE	Homo sapiens		
ORGANISM	Homo sapiens (human)		
REFERENCE	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.		
AUTHORS	1 (bases 1 to 899)		
TITLE	NIH-MGC http://mgc.nci.nih.gov/ .		
JOURNAL	National Institutes of Health, Mammalian Gene Collection (MGC) Unpublished (1999)		
COMMENT	Contact: Robert Strausberg, Ph.D. Email: cgsrbs-remail.nih.gov Tissue Procurement: ATCC cDNA Library Preparation: Life Technologies, Inc. cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LNLN) DNA Sequencing by: Agencourt Bioscience Corporation Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LNLN at: http://image.lnl.gov Plate: LHAM13208 Row: b Column: 01 High quality sequence stop: 500.		
FEATURES	Location/Qualifiers		
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	/clone="IMAGE:6014112"		
	/tissue_type="embryonal carcinoma, cell line"		
	/lab_host="DH10B (phage-resistant)"		
	/clone_id="NIH MGC 92"		
	/note="Torgan; testis; Vector: PCMV-SPORT6; Site 1: NotI; Site 2: SalI; Cloned unidirectionally; oligo-dT primed. Average insert size 2.5 kb. Library enriched for full-length clones and constructed by Life Technologies. Note: this is a NIH_MGC Library."		
ORIGIN			
Query Match	79.5%; Score 269.6; DB 5; Length 899;		
Best Local Similarity	93.7%; Pred. No.3.1e-70;		
Matches	281; Conservative 0; Mismatches 19; Indels 0; Gaps 0;		
QY	2	AGGTGCAAGCTCTCGAGTCTGGGGGAGTCTGTGTACAGCTGGGGGGTCCCTGAGACTCT	61
Db	78	AGGTGCAAGCTCTGTGAAGTCTGGGGGAGGCGTGTCCAGCTTGGGAGAGTCCCTGAGACTCT	137
QY	62	CTGTGCAAGCTCTGTGATTCACCTTTGATGATATATGCCATGCACTGGTCCGCAAGCTC	121
Db	138	CTGTGCAAGCTCTGTGATTCACCTTCACTTCACTTATGCTATGCTATGCACTGGGTCCGCAAGCTC	197
QY	122	CAGGCAAGGGGCTGGAGTGGGGTGCAGTTATATCATATGATGGAAGTAATAATATCATAG	181
Db	198	CAGGCAAGGGGCTGGAGTGGGGTGCAGTTATATCATATGATGGAAGCAATAATAATACAG	257
QY	182	CAGACTCCGTGAAGGGCCGATTCACATCTCCAGAGCAATTCCAGAAACAGCGTGTATC	241
Db	258	CAGACTCCGTGAAGGGCCGATTCACATCTCCAGAGCAATTCCAGAAACAGCGTGTATC	317

QY 242 TCAGATGAACAGCCTGAGAGCTGAGACACGCGCTGTATTACTGTGCGAAGAAAGGAG 301
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DB 318 TCAGATGAACAGCCTGAGAGCTGAGACACGCGCTGTATTACTGTGCGAAGACACAG 377
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RESULT 12
LOCUS BG686759 663 bp mRNA linear EST 01-MAY-2001
DEFINITION 60250729f1 NIH_MGC_48 Homo sapiens cDNA clone IMAGE:4763215 5',
BG686759
mRNA sequence.
ACCESSION BG686759
VERSION BG686759.1 GI:13918156
KEYWORDS EST.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens

REFERENCE Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
AUTHORS Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
TITLE NIH-MGC http://mgi.nci.nih.gov/.
JOURNAL National Institutes of Health, Mammalian Gene Collection (MGC)
COMMENT Unpublished (1999)
Contact: Robert Strausberg, Ph.D.
Email: cgapbs-remail.nih.gov

Tissue Procurement: Louis M. Staudt, M.D., Ph.D.
CDNA Library Preparation: Ling Hong/Rubin Laboratory
CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
DNA Sequencing by: Incyte Genomics, Inc.
Clone distribution: MGC clone distribution information can be
found through the I.M.A.G.E. Consortium/LLNL at:
http://image.llnl.gov
Plate: LLCM1618 row: 1 column: 08
High quality sequence stop: 659.

FEATURES

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/organism="Homo sapiens"
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/clone="IMAGE:4763215"
/tissue_type="primary B-cells from tonsils (cell line)"
/lab_host="DH10B (phage-resistant)"
/clone_11b="NIH MGC 48"
/note="Organ: B-cells; Vector: pOT7; Site 1: XhoI;
Site 2: EcoRI; cDNA made by oligo-dT priming.
Directionally cloned into EcoRI/XhoI sites using the
following 5' adaptor: GGCAACGAG(G). Size-selected >500bp
for average insert size 1.8kb. Library constructed by Ling
Hong in the laboratory of Gerald M. Rubin (University of
California, Berkeley) using ZAP-cDNA synthesis kit
(Stratagene) and Superscript II RT (Life Technologies).
Note: this is a NIH_MGC Library."

ORIGIN

Query Match 79.5%; Score 269.4; DB 4; Length 663;
Best Local Similarity 94.6%; Pred. No. 3.3e-70;
Matches 279; Conservative 0; Mismatches 16; Indels 0; Gaps 0;
QY 2 AGGTGAGCTGCTCGAGCTGTGGGGAGTGTGTACAGCTGGGGGTCCTCGAGACTT 61
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DB 129 AGGTGAGCTGTGTGAGCTGTGGGGAGGTGTGTCCAGCTGGAGGTCTCCAGACTCT 188
|||||
QY 62 CCTGTGAGCTCTGTGATTCACCTTGTATGATGATTCAGTGGGTCGGCGAGGCTC 121
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DB 189 CCTGTGAGCTCTGTGATTCACCTTGTATGATGATTCAGTGGGTCGGCGAGGCTC 248
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QY 122 CAGGCAAGGGGCTGAGAGTGGGTGGCAGTTATATCATATGATGAGAGTAATAACTATG 181
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DB 249 CAGGCAAGGGGCTGAGAGTGGGTGGCAGTTATATCATATGATGAGAGTAATAACTATG 308
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QY 182 CAGACTCCGTGAAGGGCCGATTCACATCTCCAGAGCAATTCAGAGAACAGCGCTGATC 241
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DB 309 CAGACTCCGTGAAGGGCCGATTCACATCTCCAGAGCAATTCAGAGAACAGCGCTGATC 368
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QY 242 TCAGATGAACAGCCTGAGAGCTGAGACACGCGCTGTATTACTGTGCGAAGAA 296
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DB 369 TCAGATGAACAGCCTGAGAGCTGAGACACGCGCTGTATTACTGTGCGAGAGA 423
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RESULT 13
LOCUS AM402572 503 bp mRNA linear EST 16-FEB-2000
DEFINITION UI-HF-BK0-aax-b-12-0-UI.r1 NIH_MGC_36 Homo sapiens cDNA clone
IMAGE:3055079 5', mRNA sequence.
ACCESSION AM402572
VERSION AM402572.1 GI:6921271
KEYWORDS EST.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens

REFERENCE Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
AUTHORS Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
TITLE NIH-MGC http://mgi.nci.nih.gov/.
JOURNAL National Institutes of Health, Mammalian Gene Collection (MGC)
COMMENT Unpublished (1999)
Contact: Robert Strausberg, Ph.D.
Email: cgapbs-remail.nih.gov

Eco RI site shown at the beginning of the sequence.
Tissue Procurement: Louis M. Staudt, M.D., Ph.D.
CDNA Library Preparation: M.B. Soares Lab
CDNA Library Arrayed by: M.B. Soares Lab
DNA Sequencing by: M.B. Soares Lab
Clone distribution: MGC clone distribution information can be
found through the I.M.A.G.E. Consortium/LLNL at:
www.bio.llnl.gov/bbrp/image/image.html
Seq primer: M13 Forward.

FEATURES

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/db_xref="taxon:9606"
/clone="IMAGE:3055079"
/tissue_type="lymph"
/cell_type="germinal center B cells"
/cell_line="MGC85"
/lab_host="DH10B (LTI)"
/clone_11b="NIH MGC 36"
/note="Vector: pRTT3-Pac; Site 1: NotI; Site 2: Eco RI;
Constructed from size fractionated cytoplasmic mRNA
(0.5-1.5kb). Directionally cloned. Cells provided by Louis
M. Staudt, Ph.D. Library preparation by Maria de Fatima
Bonaldo, Ph.D. and M. Bento Soares, Ph.D."

ORIGIN

Query Match 78.8%; Score 267.2; DB 2; Length 503;
Best Local Similarity 87.0%; Pred. No. 1.4e-69;
Matches 315; Conservative 0; Mismatches 23; Indels 24; Gaps 1;
QY 2 AGGTGAGCTGCTCGAGCTGTGGGGAGTGTGTACAGCTGGGGGTCCTCGAGACTCT 61
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DB 44 AGGTGAGCTGTGTGAGCTGTGGGGAGGTGTGTCCAGCTGGAGGTCTCCAGACTCT 103
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QY 62 CCTGTGAGCTCTGTGATTCACCTTGTATGATGATTCAGTGGGTCGGCGAGGCTC 121
|||||
DB 104 CCTGTGAGCTCTGTGATTCACCTTGTATGATGATTCAGTGGGTCGGCGAGGCTC 163
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QY 122 CAGGCAAGGGGCTGAGAGTGGGTGGCAGTTATATCATATGATGAGAGTAATAACTATG 181
|||||
DB 164 CAGGCAAGGGGCTGAGAGTGGGTGGCAGTTATATCATATGATGAGAGTAATAACTATG 223
|||||
QY 182 CAGACTCCGTGAAGGGCCGATTCACATCTCCAGAGCAATTCAGAGAACAGCGCTGATC 241
|||||
DB 224 CAGACTCCGTGAAGGGCCGATTCACATCTCCAGAGCAATTCAGAGAACAGCGCTGATC 283
|||||
QY 242 TCAGATGAACAGCCTGAGAGCTGAGACACGCGCTGTATTACTGTGCGAAGAA----- 295
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DB 284 TCAGATGAACAGCCTGAGAGCTGAGACACGCGCTGTATTACTGTGCGAAGAACCCCA 343
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QY 296 -----AGGAAGCTACTGGGGCCAGGAAACCCGTGTCACCGTCTCT 337
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 Db 344 ATTACGATTTTGGAGTGCACAACTACTGGGGCCAGGAACCTGTGTCACCGTCTCT 403
 QY 338 CA 339
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 Db 404 CA 405

	RESULT	14
BQ708235		
LOCUS	BQ708235	
DEFINITION	BQ708235	
	AGNCOURT_8354494 NIH_MGC_113 Homo sapiens CDNA clone IMAGE:6281304	894 bp mRNA linear EST 16-JUL-2002
	5' , mRNA Sequence.	

ACCESSION	BQ708235	
VERSION	BQ708235.1	GI:21847134
KEYWORDS	EST.	
SOURCE	Homo sapiens	(human)
ORGANISM	Homo sapiens	

REFERENCE	1 (bases 1 to 894)
AUTHORS	NIH-MGC http://mgc.nci.nih.gov/ .
TITLE	National Institutes of Health, Mammalian Gene Collection (MGC)
JOURNAL	Unpublished (1999)
COMMENT	Contact: Robert Strausberg, Ph.D.

Tissue Procurement: Dr. Mark Watson
CDNA Library Preparation: Rubin Laboratory
CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LNL)
DNA Sequencing by: Agencourt Bioscience Corporation
Clone distribution: MGC clone distribution information can be
found through the I.M.A.G.E. Consortium/LNL at:
<http://image.lnl.gov>
Plate: LNCM2473 row: 0 column: 01
High quality sequence stop: 585.

FEATURES	Location/Qualifiers
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/clone="IMAGE:6281304"
/lab_host="DH10B (phage-resistant)"
/clone_lib="NH MGC 113"
/note="Organ: spleen; Vector: pOTB7; Site 1: XhoI; Site 2:
EcoRI; cDNA made by oligo-dT priming. Directionally cloned
into EcoRI/XhoI sites using the following 5' adaptor:
GGCCGCGG(C). Library constructed by Ling Hong in the
laboratory of Gerald M. Rubin (University of California,
Berkeley) using ZAP-cDNA synthesis kit (Stratagene) and
Superscript II RT (Life Technologies)". Note: this is a
NH MGC Library."

```

ORIGIN

Query Match	78.7%	Score 266.8;	DB 5;	Length 894;
Best Local Similarity	92.7%	Pred. No. 2.2e-69;		
Matches 280; Conservative	0;	Mismatches 22;	Indels 0;	Gaps 0;

QY	2	AGGTCAGACCTCTCGAGCTCGGGGGAGTCGTCGTCACGCTCGGGGGGTCCTCCGACACTTC	61
Db	122	AGGTTCACACTGATGAGTCGTGGGGGAGGGCGTGCTCAGCTCGGGGGGTCCTCGACACTTC	181
QY	62	CCTGTGCAGCCTCTGGATTCACTTTGATGATTATGSCATGCACTCGGGTCGCGCAGAGCTC	121
Db	182	CCTGTGCAGCCTCTGGATTCACTTTCACTAGTATGCGATGCACTCGGGTCGCGCAGAGCTC	241
QY	122	CAGGCAAGGGGCTGAGTGGGTGGAGTTATTCATATGATGAAATAAATACTATG	181
Db	242	CAGGGAAGGGGCTGAGTGGGTGGCATTTATTCAGATATGATGAAGTATAAATACTAAG	301
QY	182	CAGACTCCGTGAAGGGGCCGATTACCAACTCTCAGAGACAAATTCMAAGAACGCTGTATC	241
Db	302	CAGACTCCGTGAAGGGCGATTACCAACTCTCAGAGACAAATTCMAAGAACGCTGTATC	361

Oy 242 TGCAAATGAAACAGCCTGAAGCTGAAGAACAAGCGCTGTATTACTGTGGCAAAAAGAG 301
| | | | | | | | | | | | | | | | | | | | | |
Db 362 TGCAAATGAAACAGCCTGAAGCTGAAGAACAAGCGCTGTATTACTGTGCCAAATTAAGC 421

Oy 302 GC 303
| |
Db 422 GC 423

RESULT	15
BG503730	
LOCUS	BG503730
DEFINITION	BG503730 456 bp mRNA linear EST 27-MAR-2001
	60254790521 NIH_MGC_61 Homo sapiens CDNA clone IMAGE:4657248 5'
	mRNA sequence.

ACCESSION	BG503730	GI:13465247
VERSION	BG503730.1	
KEYWORDS	EST.	
SOURCE	Homo sapiens (human)	
ORGANISM	Homo sapiens	

REFERENCE	AUTHORS	TITLE	JOURNAL	COMMENT
1	(bases 1 to 456)	NIH-MGC http://mgc.nci.nih.gov/ .	National Institutes of Health, Mammalian Gene Collection (MGC)	Unpublished (1999)
	Contact: Robert Strausberg, Ph.D.			

Email: Gadaps-Research@hhi.hiroshima-u.ac.jp
 Tissue Procurement: ATCC
 CDNA Library Preparation: CLONTECH Laboratories, Inc.
 CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LNL)
 DNA Sequencing by: Incyte Genomics, Inc.
 Clone distribution: MGC clone distribution information can be
 found through the I.M.A.G.E. Consortium/LNL at:
<http://image.llnl.gov>
 Plate: LHCMA49 row: j column: 01
 High quality sequence stop: 456.

FEATURES	Location/Qualifiers
source	1. .456

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/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="IMAGE:4657248"
/tissue_type="embryonal carcinoma"
/lab_host="DH10B (T1 phage-resistant)"
/clone.lib="N1H MGC 61"
/note="Organ: testis; Vector: pDNR-LIB (Clontech); Site_1: SfiI (ggcgccgcggcc); Site_2: SfiI (ggccatattggcc);"
Double-stranded cDNA was prepared from cell line RNA. 5' and 3' adaptors were used in cloning as follows: 5' adaptor sequence: 5'-CACGGCCATTATGGCC-3' and 3' adaptor sequence: 5'-ATCTTCAGAGCCGACGCGCCACATG-dT(30)BN-3' (where B = A, C, G or N = A, C, G or T). Average insert size 1.75 kb (range 0.9-4.0 kb). 15/15 colonies contained inserts by PCR. This library was enriched for full-length clones and was constructed by Clontech Laboratories (Palo Alto, CA). Note: this is a NIH MGC library."

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ORIGIN

Query Match	78.6%;	Score 266.6;	DB 4;	Length 456;
Best Local Similarity	90.7%;	Pred. No. 2.1e-69;		

[illegible]

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Db      216 CAGGCAAGGGGCTGGAGTGGGTGGCAGTTATATGATGATGAGTAATAAATACTATG 275
Qy      182 CAGACTCCGTGAAGGGCCGATTTCACCATCTCCAGAGACAATTCCAAGAACGCTGTATC 241
Db      276 CAGACTCCGTGAAGGGCCGATTTCACCATCTCCAGAGACAATTCCAAGAACGCTGTATC 335
Qy      242 TGCATATGAACAGCCTGAGAGCTGAGAGACACGGCTGTGTATTACTGTGCAAAAAGGAG 301
Db      336 TGCATATGAACAGCCTGAGAGCTGAGAGACACGGCTGTGTATTACTGTGCAAGACACAG 395
Qy      302 GCTACTGGGGCCA 314
Db      396 TGAGGGGAGGTCA 408
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Search completed: September 11, 2005, 22:50:37
Job time : 2730.33 secs

Page Blank (uspio)

ATTORNEY/AGENT INFORMATION:
NAME: Freeman, John W.
REGISTRATION NUMBER: 29,066
REFERENCE/DOCKET NUMBER: 06501/004001
TELECOMMUNICATION INFORMATION:
TELEPHONE: 617-542-5070
TELEFAX: 617-542-8906
TELEX: 200154
INFORMATION FOR SEQ ID NO: 30:
SEQUENCE CHARACTERISTICS:
LENGTH: 512 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
MOLECULE TYPE: Genomic DNA
ORIGINAL SOURCE:
ORGANISM: Homo sapiens
CELL TYPE: human lymphoblast
CELL LINE: GM1
US-08-545-809A-30

Query Match 80.5%; Score 272.8; DB 3; Length 512;
Best Local Similarity 94.3%; Pred. No. 5,6e-80;
Matches 283; Conservative 0; Mismatches 17; Indels 0; Gaps 0;

QY 2 AGGTGAGCTGCTCGAGTCTGGGGGAGTGTGTAGACGCTGGGGGCTCCGAGACTCT 61
DB 169 AGGTGAGCTGCTGGAGTCTGGGGGAGGCGTGTCCAGCTGGAGAGTCTCCGAGACTCT 228
QY 62 CCTGTGACAGCTCTGATTCACCTTGTATGATATGATCCATGCACTGGTCCGAGAGCTTC 121
DB 229 CCTGTGACAGCTCTGATTCACCTTGTATGATATGATCCATGCACTGGTCCGAGAGCTTC 288
QY 122 CAGGCAAGGGGCTGAGTGGGTGGCAGTTATATCATATGATGAGTAATTAATACTATG 181
DB 289 CAGGCAAGGGGCTGAGTGGGTGGCAGTTATATCATATGATGAGTAATTAATACTATG 348
QY 182 CAGACTCCGTGAAGGGCCGATTCACATCTCCAGAGCAATTCAGAGCAAGCTGTATC 241
DB 349 CAGACTCCGTGAAGGGCCGATTCACATCTCCAGAGCAATTCAGAGCAAGCTGTATC 408
QY 242 TCCAATGAAACAGCTGAGAGCTGAGAGCAAGCTGTGTATTAATGCGAAAAAGAG 301
DB 409 TCCAATGAAACAGCTGAGAGCTGAGAGCAAGCTGTGTATTAATGCGAAAAAGAG 468

RESULT 5
US-09-456-090A-59
Sequence 59, Application US/09456090A
Patent No. 6680209

GENERAL INFORMATION:
APPLICANT: Buechler, Joe
APPLICANT: Walkers, Gunars
APPLICANT: Gray, Jeff
APPLICANT: Lomborg, Nils
TITLE OF INVENTION: HUMAN ANTIBODIES AS DIAGNOSTIC REAGENTS
FILE REFERENCE: 020015-000200US
CURRENT FILING DATE: 1999-12-06
NUMBER OF SEQ ID NOS: 110
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 59
LENGTH: 675
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: CDS
LOCATION: (1)..(675)
OTHER INFORMATION: M1-5H
US-09-456-090A-59

Query Match 80.5%; Score 272.8; DB 4; Length 675;
Best Local Similarity 88.9%; Pred. No. 6,4e-80;

Matches 311; Conservative 0; Mismatches 27; Indels 12; Gaps 1;

QY 2 AGGTGAGCTGCTCGAGTCTGGGGGAGTGTGTAGACGCTGGGGGCTCCGAGACTCT 61
DB 2 AGGTGAGCTGCTGGAGTCTGGGGGAGGCGTGTCCAGCTGGAGAGTCTCCGAGACTCT 61
QY 62 CCTGTGACAGCTCTGATTCACCTTGTATGATATGATCCATGCACTGGTCCGAGAGCTTC 121
DB 62 CCTGTGACAGCTCTGATTCACCTTGTATGATATGATCCATGCACTGGTCCGAGAGCTTC 121
QY 122 CAGGCAAGGGGCTGAGTGGGTGGCAGTTATATCATATGATGAGTAATTAATACTATG 181
DB 122 CAGGCAAGGGGCTGAGTGGGTGGCAGTTATATCATATGATGAGTAATTAATACTATG 181
QY 182 CAGACTCCGTGAAGGGCCGATTCACATCTCCAGAGCAATTCAGAGCAAGCTGTATC 241
DB 182 CAGACTCCGTGAAGGGCCGATTCACATCTCCAGAGCAATTCAGAGCAAGCTGTATC 241
QY 242 TCCAATGAAACAGCTGAGAGCTGAGAGCAAGCTGTGTATTAATGCGAAAAAG--- 298
DB 242 TCCAATGAAACAGCTGAGAGCTGAGAGCAAGCTGTGTATTAATGCGAAAAAG--- 298
QY 299 -----AAGCTACTGGGGCCAGGAAACCTGTGTACCTCTCTCA 339
DB 302 TCAGGTAATTGACTATTGGGGCCAGGAAACCTGTGTACCTCTCTCA 351

RESULT 6
US-09-456-090A-91
Sequence 91, Application US/09456090A
Patent No. 6680209

GENERAL INFORMATION:
APPLICANT: Buechler, Joe
APPLICANT: Walkers, Gunars
APPLICANT: Gray, Jeff
APPLICANT: Lomborg, Nils
TITLE OF INVENTION: HUMAN ANTIBODIES AS DIAGNOSTIC REAGENTS
FILE REFERENCE: 020015-000200US
CURRENT FILING DATE: 1999-12-06
NUMBER OF SEQ ID NOS: 110
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 91
LENGTH: 675
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: CDS
LOCATION: (1)..(675)
OTHER INFORMATION: M2-11H
US-09-456-090A-91

Query Match 80.5%; Score 272.8; DB 4; Length 675;
Best Local Similarity 88.9%; Pred. No. 6,4e-80;
Matches 311; Conservative 0; Mismatches 27; Indels 12; Gaps 1;

QY 2 AGGTGAGCTGCTCGAGTCTGGGGGAGTGTGTAGACGCTGGGGGCTCCGAGACTCT 61
DB 2 AGGTGAGCTGCTGGAGTCTGGGGGAGGCGTGTCCAGCTGGAGAGTCTCCGAGACTCT 61
QY 62 CCTGTGACAGCTCTGATTCACCTTGTATGATATGATCCATGCACTGGTCCGAGAGCTTC 121
DB 62 CCTGTGACAGCTCTGATTCACCTTGTATGATATGATCCATGCACTGGTCCGAGAGCTTC 121
QY 122 CAGGCAAGGGGCTGAGTGGGTGGCAGTTATATCATATGATGAGTAATTAATACTATG 181
DB 122 CAGGCAAGGGGCTGAGTGGGTGGCAGTTATATCATATGATGAGTAATTAATACTATG 181
QY 182 CAGACTCCGTGAAGGGCCGATTCACATCTCCAGAGCAATTCAGAGCAAGCTGTATC 241
DB 182 CAGACTCCGTGAAGGGCCGATTCACATCTCCAGAGCAATTCAGAGCAAGCTGTATC 241
QY 242 TCCAATGAAACAGCTGAGAGCTGAGAGCAAGCTGTGTATTAATGCGAAAAAG--- 298

Db 242 TCGCAATGAAACCGCTGAGAGCCGAGAGACACGCGCTGTGTATTACTGTGCGAAGACGGGA 301
QY 299 -----AAGCTACTGGGGCCAGGGAAACCTGGTCAACCGTCCCTCA 339
Db 302 TCGGGTACTTTGACTATTGGGGCCAGGGAAACCTGGTCAACCGTCCCTCA 351

RESULT 7

US-09-453-234-59
; Sequence 59, Application US/09453234
; Patent No. 6794132
; GENERAL INFORMATION:
; APPLICANT: Buechler, Joe
; APPLICANT: Valkiers, Gunars
; APPLICANT: Gray, Jeff
; APPLICANT: Lomborg, Nils
; APPLICANT: Biosite Diagnostics, Inc.
; APPLICANT: Genpharm International
; TITLE OF INVENTION: Human Antibodies
; FILE REFERENCE: 020015-000110US
; CURRENT APPLICATION NUMBER: US/09/453,234
; CURRENT FILING DATE: 1999-12-01
; PRIOR APPLICATION NUMBER: US 60/157,415
; PRIOR FILING DATE: 1999-10-02
; NUMBER OF SEQ ID NOS: 112
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 59
; LENGTH: 675
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; OTHER INFORMATION: M1-5H
; NAME/KEY: CDS
; LOCATION: (1)..(675)
US-09-453-234-59

Query Match 80.5%; Score 272.8; DB 4; Length 675;
Best Local Similarity 88.9%; Pred. No. 6.4e-80;
Matches 311; Conservative 0; Mismatches 27; Indels 12; Gaps 1;

QY 2 AGGTGACGCTGCTCGAGTCTGGGGAGTGTGTACACGCTGGGGGCTCCCTGAGACTCT 61
Db 2 AGGTGACGCTGCTGAGTCTGGGGAGTGTGTACACGCTGGGGGCTCCCTGAGACTCT 61
QY 62 CCTGTGACGCTCTGGATTCACTTTGATGATTATGTCATGCGGCTGGCCAGGCTC 121
Db 62 CCTGTGACGCTCTGGATTCACTTTGATGATTATGTCATGCGGCTGGCCAGGCTC 121
QY 122 CAGGCAAGGGGCTGAGTGGTGGCAGTTATATCATATGATGAGATTAATAACTATG 181
Db 122 CAGGCAAGGGGCTGAGTGGTGGCAGTTATATCATATGATGAGATTAATAACTATG 181
QY 182 CAGACTCCGTGAAGGGCCGATTCACCATCTCCAGAGCAATTCAGAAACAGCGTGTATC 241
Db 182 CAGACTCCGTGAAGGGCCGATTCACCATCTCCAGAGCAATTCAGAAACAGCGTGTATC 241
QY 242 TCGCAATGAACAGCCTGAGAGCCGAGAGACCGGCTGTGTATTAATGCGAAAGG--- 298
Db 242 TCGCAATGAACAGCCTGAGAGCCGAGAGACCGGCTGTGTATTAATGCGAAAGG--- 298
QY 299 -----AAGCTACTGGGGCCAGGGAAACCTGGTCAACCGTCCCTCA 339
Db 302 TCGGGTACTTTGACTATTGGGGCCAGGGAAACCTGGTCAACCGTCCCTCA 351

RESULT 8
US-09-453-234-91
; Sequence 91, Application US/09453234
; Patent No. 6794132
; GENERAL INFORMATION:
; APPLICANT: Buechler, Joe
; APPLICANT: Valkiers, Gunars

; APPLICANT: Gray, Jeff
; APPLICANT: Lomborg, Nils
; APPLICANT: Biosite Diagnostics, Inc.
; APPLICANT: Genpharm International
; TITLE OF INVENTION: Human Antibodies
; FILE REFERENCE: 020015-000110US
; CURRENT APPLICATION NUMBER: US/09/453,234
; CURRENT FILING DATE: 1999-12-01
; PRIOR APPLICATION NUMBER: US 60/157,415
; PRIOR FILING DATE: 1999-10-02
; NUMBER OF SEQ ID NOS: 112
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 91
; LENGTH: 675
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (1)..(675)
; OTHER INFORMATION: M2-11H
US-09-453-234-91

Query Match 80.5%; Score 272.8; DB 4; Length 675;
Best Local Similarity 88.9%; Pred. No. 6.4e-80;
Matches 311; Conservative 0; Mismatches 27; Indels 12; Gaps 1;

QY 2 AGGTGACGCTGCTCGAGTCTGGGGAGTGTGTACACGCTGGGGGCTCCCTGAGACTCT 61
Db 2 AGGTGACGCTGCTGAGTCTGGGGAGTGTGTACACGCTGGGGGCTCCCTGAGACTCT 61
QY 62 CCTGTGACGCTCTGGATTCACTTTGATGATTATGTCATGCGGCTGGCCAGGCTC 121
Db 62 CCTGTGACGCTCTGGATTCACTTTGATGATTATGTCATGCGGCTGGCCAGGCTC 121
QY 122 CAGGCAAGGGGCTGAGTGGTGGCAGTTATATCATATGATGAGATTAATAACTATG 181
Db 122 CAGGCAAGGGGCTGAGTGGTGGCAGTTATATCATATGATGAGATTAATAACTATG 181
QY 182 CAGACTCCGTGAAGGGCCGATTCACCATCTCCAGAGCAATTCAGAAACAGCGTGTATC 241
Db 182 CAGACTCCGTGAAGGGCCGATTCACCATCTCCAGAGCAATTCAGAAACAGCGTGTATC 241
QY 242 TCGCAATGAACAGCCTGAGAGCCGAGAGACCGGCTGTGTATTAATGCGAAAGG--- 298
Db 242 TCGCAATGAACAGCCTGAGAGCCGAGAGACCGGCTGTGTATTAATGCGAAAGG--- 298
QY 299 -----AAGCTACTGGGGCCAGGGAAACCTGGTCAACCGTCCCTCA 339
Db 302 TCGGGTACTTTGACTATTGGGGCCAGGGAAACCTGGTCAACCGTCCCTCA 351

RESULT 9

US-09-560-198A-1
; Sequence 1, Application US/09560198A
; Patent No. 6492497
; GENERAL INFORMATION:
; APPLICANT: Thompson, Julia E
; APPLICANT: Leonard, Simon N
; APPLICANT: Wilson, Alison J
; APPLICANT: Braddock, Peter SH
; APPLICANT: Du Fou, Sarah L
; APPLICANT: McCafferty, John G
; APPLICANT: Conroy, Louise A
; APPLICANT: Tempest, Philip R
; TITLE OF INVENTION: Specific binding members for Tgfbeta1
; FILE REFERENCE: 28111/35620A
; CURRENT APPLICATION NUMBER: US/09/560,198A
; CURRENT FILING DATE: 2000-04-28
; PRIOR APPLICATION NUMBER: US 60/131,983
; PRIOR FILING DATE: 1999-04-30
; NUMBER OF SEQ ID NOS: 25
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1

LENGTH: 369
TYPE: DNA
ORGANISM: Homo sapiens
US-09-560-198A-1

Query Match
Best Local Similarity 90.4%; Pred. No. 5,5e-80;
Matches 290; Conservative 0; Mismatches 29; Indels 0; Gaps 0;

QY 2 AGGTGACGCTGCTGAGTCTGGGGAGTCTGTGTAACGCTGGGGGCTCCCTGAGCTCT 61
DB 2 AGGTGACGCTGCTGAGTCTGGGGAGTCTGTGTAACGCTGGGGGCTCCCTGAGCTCT 61
QY 62 CCTGTGACGCTCTGATTTACCTTTGATGATTAATGCAAGCACTGGTCCGCAAGCTC 121
DB 62 CCTGTGACGCTCTGATTTACCTTTGATGATTAATGCAAGCACTGGTCCGCAAGCTC 121
QY 122 CAGGCAAGGGGCTGAGTGGGTGAGTATATCATATGATGGAAGTAATTAATCTATG 181
DB 122 CAGGCAAGGGGCTGAGTGGGTGAGTATATCATATGATGGAAGTAATTAATCTATG 181
QY 182 CAGACTCCGTGAAGGGCCGATTCACCATCTCCAGAGCAATTCAGAGAACCGCTGATC 241
DB 182 CAGACTCCGTGAAGGGCCGATTCACCATCTCCAGAGCAATTCAGAGAACCGCTGATC 241
QY 242 TCGAATGAAACACCTGAGAGCTGAGACACGCGCTGTGTATTACTGTGCGAAGAAAGAG 301
DB 242 TCGAATGAAACACCTGAGAGCTGAGACACGCGCTGTGTATTACTGTGCGAAGAAAGAG 301
QY 302 GCTACTGGGGCCAGGAGAC 320
DB 302 AATATAGTGGCTACGATAC 320

RESULT 10
US-09-456-090A-55
Sequence 55, Application US/09456090A
Patent No. 6680209

GENERAL INFORMATION:
APPLICANT: Buechler, Joe
APPLICANT: Walkers, Gunars
APPLICANT: Gray, Jeff
APPLICANT: Lonberg, Nils
TITLE OF INVENTION: HUMAN ANTIBODIES AS DIAGNOSTIC REAGENTS
FILE REFERENCE: 020015-000200US
CURRENT FILING DATE: 1999-12-06
NUMBER OF SEQ ID NOS: 110
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 55
LENGTH: 677
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: CDS
LOCATION: (3)..(677)
OTHER INFORMATION: M1-3H
US-09-456-090A-55

Query Match
Best Local Similarity 80.3%; Score 272.2; DB 4; Length 677;
Matches 311; Conservative 0; Mismatches 28; Indels 12; Gaps 1;

QY 1 GAGTGCAGCTGCTGAGTCTGGGGAGTCTGTGTAACGCTGGGGGCTCCCTGAGACTC 60
DB 3 GAGTGCAGCTGCTGAGTCTGGGGAGTCTGTGTAACGCTGGGGGCTCCCTGAGACTC 62
QY 61 TCCGTGACGCTCTGATTTACCTTTGATGATTAATGCAAGCACTGGTCCGCAAGCTC 120
DB 61 TCCGTGACGCTCTGATTTACCTTTGATGATTAATGCAAGCACTGGTCCGCAAGCTC 120
QY 121 CAGGCAAGGGGCTGAGTGGGTGAGTATATCATATGATGGAAGTAATTAATCTAT 180
DB 121 CAGGCAAGGGGCTGAGTGGGTGAGTATATCATATGATGGAAGTAATTAATCTAT 180

DB 123 CAGGCAAGGGGCTGAGTGGGTGAGTATATCACTTATATGATGAGATTAATTAATCTAT 182
QY 181 GCAAGCTCCGTGAAGGGCCGATTTACCATCTTCCAGAGCAATTTCCAGAACGCTGTAT 240
DB 183 GCAAGCTCCGTGAAGGGCCGATTTACCATCTTCCAGAGCAATTTCCAGAACGCTGTAT 242
QY 241 CTGCAATGAACAGCTGAGCTGAGTACAGGAGCAGGGGCTGTATTAATCTGTGCGAAGAAAG-- 298
DB 243 CTGCAATGAACAGCTGAGCTGAGTACAGGAGCAGGGGCTGTATTAATCTGTGCGAAGAGCGGG 302
QY 299 -----AAGCTACTGGGGCCAGGAAACCTGTGACCGTCTCTCA 339
DB 303 ATCGGTAATTGACTATTGGGGCCAGGAAACCTGTGACCGTCTCTCA 353

RESULT 11
US-09-453-234-55
Sequence 55, Application US/09453234
Patent No. 6794132

GENERAL INFORMATION:
APPLICANT: Buechler, Joe
APPLICANT: Walkers, Gunars
APPLICANT: Gray, Jeff
APPLICANT: Lonberg, Nils
APPLICANT: Biosite Diagnostics, Inc.
TITLE OF INVENTION: Human Antibodies
FILE REFERENCE: 020015-000110US
CURRENT FILING DATE: 1999-12-01
PRIORITY FILING DATE: 1999-10-02
NUMBER OF SEQ ID NOS: 112
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 55
LENGTH: 677
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: CDS
LOCATION: (3)..(677)
US-09-453-234-55

Query Match
Best Local Similarity 80.3%; Score 272.2; DB 4; Length 677;
Matches 311; Conservative 0; Mismatches 28; Indels 12; Gaps 1;

QY 1 GAGTGCAGCTGCTGAGTCTGGGGAGTCTGTGTAACGCTGGGGGCTCCCTGAGACTC 60
DB 3 GAGTGCAGCTGCTGAGTCTGGGGAGTCTGTGTAACGCTGGGGGCTCCCTGAGACTC 62
QY 61 TCCGTGACGCTCTGATTTACCTTTGATGATTAATGCAAGCACTGGTCCGCAAGCTC 120
DB 61 TCCGTGACGCTCTGATTTACCTTTGATGATTAATGCAAGCACTGGTCCGCAAGCTC 122
QY 121 CAGGCAAGGGGCTGAGTGGGTGAGTATATCATATGATGGAAGTAATTAATCTAT 180
DB 121 CAGGCAAGGGGCTGAGTGGGTGAGTATATCATATGATGGAAGTAATTAATCTAT 182
QY 181 GGAAGCTCCGTGAAGGGCCGATTTACCATCTTCCAGAGCAATTTCCAGAACGCTGTAT 240
DB 183 GGAAGCTCCGTGAAGGGCCGATTTACCATCTTCCAGAGCAATTTCCAGAACGCTGTAT 242
QY 241 CTGCAATGAACAGCTGAGCTGAGTACAGGAGCAGGGGCTGTATTAATCTGTGCGAAGAAAG-- 298
DB 243 CTGCAATGAACAGCTGAGCTGAGTACAGGAGCAGGGGCTGTATTAATCTGTGCGAAGAGCGGG 302
QY 299 -----AAGCTACTGGGGCCAGGAAACCTGTGACCGTCTCTCA 339
DB 303 ATCGGTAATTGACTATTGGGGCCAGGAAACCTGTGACCGTCTCTCA 353


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Db      59 AGGTGACAGCTGATGAGTCTGGGGGAGAGCGGTGTCAGAGCTGGAGAGTCCCTGAGACTCT 118
Qy      62 CCTGTGACAGCTCTTGATTCACCTTTGATGATTATGTCATGCACTGGGTCCGCGAGGCTC 121
Db      119 CCTGTGACAGCTCTTGATTCACCTTTGATGATTATGTCATGCACTGGGTCCGCGAGGCTC 178
Qy      122 CAGGCAAGGGGCTGAGTGGGGTGGCAGTTATATCATATATGGAAGTAATAATTAATATG 181
Db      179 CAGGCAAGGGGCTGAGTGGGGTGGCAGTTATATGTAATATGGAAGTAATAATACTATG 238
Qy      182 CAGACTCCGTGAGAGGCGCATTCACCATCTCCAGAGCAATTCAGAGAACAGCGCTGTATC 241
Db      239 CAGACTCCGAGAGGCGCATTCACCATCTCCAGAGCAATTCAGAGAACAGCGCTGTATC 298
Qy      242 TGCAGATGAAACAGCTGAGAGCTGAGAGCAAGCGCTGTATTACTGTGCGAAAAAGAA- 300
Db      299 TGCAGATGAAACAGCTGAGAGCGAGAGCAAGCGCTGTATTACTGTGCGAGAGCGGAGC 358
Qy      301 -----GGCTACTGGGGCGAGGAACTCGGTCAAGCGTCTCCTCA 339
Db      359 TCGTGGGTTACTTTGACTACTGGGGCGAGGAACTCGGTCAAGCGTCTCCTCA 411

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RESULT 15
US-09-472-087-59
/ Sequence 59, Application US/09472087
/ Patent No. 6682736
/ GENERAL INFORMATION:
/ APPLICANT: HANSON, DOUGLAS C.
/ APPLICANT: NEVEU, MARK J.
/ APPLICANT: MUELLER, EILEEN E.
/ APPLICANT: HANKE, JEFFREY H.
/ APPLICANT: GILMAN, STEVEN C.
/ APPLICANT: DAVIS, C. GEOFFREY
/ APPLICANT: CORVALAN, JOSE R.
/ TITLE OF INVENTION: HUMAN MONOCLONAL ANTIBODIES TO CTLA-4
/ FILE REFERENCE: ABX-PFI
/ CURRENT APPLICATION NUMBER: US/09/472,087
/ CURRENT FILING DATE: 1999-12-23
/ PRIOR APPLICATION NUMBER: 60/113,647
/ PRIOR FILING DATE: 1998-12-23
/ NUMBER OF SEQ ID NOS: 147
/ SOFTWARE: PatentIn Ver. 2.1
/ SEQ ID NO 59
/ LENGTH: 1392
/ TYPE: DNA
/ ORGANISM: Homo sapiens
US-09-472-087-59

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Query Match      80.1%; Score 271.4; DB 4; Length 1392;
Best Local Similarity 88.4%; Pred. No. 2.6e-79;
Matches 312; Conservative 0; Mismatches 26; Indels 15; Gaps 1;

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Qy      2 AGGTGACAGCTGCTGAGTCTGGGGGAGTGGTGTACAGCTGGGGGTCCTTGAGACTCT 61
Db      59 AGGTGACAGCTGCTGAGTCTGGGGGAGTGGTGTACAGCTGGGGGTCCTTGAGACTCT 118
Qy      62 CCTGTGACAGCTCTTGATTCACCTTTGATGATTATGTCATGCACTGGGTCCGCGAGGCTC 121
Db      119 CCTGTGACAGCTCTTGATTCACCTTTGATGATTATGTCATGCACTGGGTCCGCGAGGCTC 178
Qy      122 CAGGCAAGGGGCTGAGTGGGGTGGCAGTTATATCATATATGGAAGTAATAATTAATATG 181
Db      179 CAGGCAAGGGGCTGAGTGGGGTGGCAGTTATATGTAATATGGAAGTAATAATACTATG 238
Qy      182 CAGACTCCGTGAGAGGCGCATTCACCATCTCCAGAGCAATTCAGAGAACAGCGCTGTATC 241
Db      239 CAGACTCCGAGAGGCGCATTCACCATCTCCAGAGCAATTCAGAGAACAGCGCTGTATC 298
Qy      242 TGCAGATGAAACAGCTGAGAGCTGAGAGCAAGCGCTGTATTACTGTGCGAAAAAGAA- 300
Db      299 TGCAGATGAAACAGCTGAGAGCGAGAGCAAGCGCTGTATTACTGTGCGAGAGCGGAGC 358

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Qy      301 -----GGCTACTGGGGCGAGGAACTCGGTCAAGCGTCTCCTCA 339
Db      359 TCGTGGGTTACTTTGACTACTGGGGCGAGGAACTCGGTCAAGCGTCTCCTCA 411

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Job time: 106.268 secs

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GenCore version 5.1.6
Copyright (c) 1993 - 2005 CompuGen Ltd.

OM nucleic - nucleic search, using sw model

Run on: September 11, 2005, 21:22:08 ; Search time 536.75 Seconds
(without alignments)
4147.731 Million cell updates/sec

Title: US-09-403-107-145_COPY_1_339

Perfect score: 339

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Gapop 10.0 , Gapext 1.0

Searched: 7351250 seqs, 3283620254 residues

Total number of hits satisfying chosen parameters: 14702500

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

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- 3: /cgn2_6/ptodata/2/pubpna/US06_NEW_PUB.seq:*
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- 15: /cgn2_6/ptodata/2/pubpna/US10C_PUBCOMB.seq:*
- 16: /cgn2_6/ptodata/2/pubpna/US10D_PUBCOMB.seq:*
- 17: /cgn2_6/ptodata/2/pubpna/US10F_PUBCOMB.seq:*
- 18: /cgn2_6/ptodata/2/pubpna/US10F_PUBCOMB.seq:*
- 19: /cgn2_6/ptodata/2/pubpna/US10G_PUBCOMB.seq:*
- 20: /cgn2_6/ptodata/2/pubpna/US10H_PUBCOMB.seq:*
- 21: /cgn2_6/ptodata/2/pubpna/US10I_PUBCOMB.seq:*
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- 26: /cgn2_6/ptodata/2/pubpna/US60_PUBCOMB.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	339	100.0	372	15	US-10-325-694-145
2	301.2	88.8	729	18	US-10-406-830-20
3	294.8	87.0	396	17	US-10-309-764-54
4	289.2	85.3	342	20	US-10-738-120-9
5	285.2	84.1	537	21	US-10-805-177-25
6	284.4	83.9	357	16	US-10-010-729-8
7	284	83.8	352	21	US-10-638-265-17

8	283.8	83.7	405	17	US-10-309-764-58	Sequence 58, Appl
9	282	83.2	783	19	US-10-642-120-5	Sequence 5, Appl
10	282	83.2	783	19	US-10-642-060-5	Sequence 5, Appl
11	282	83.2	783	19	US-10-642-122-5	Sequence 5, Appl
12	282	83.2	783	19	US-10-642-124-5	Sequence 5, Appl
13	282	83.2	783	19	US-10-621-269-5	Sequence 5, Appl
14	282	83.2	783	19	US-10-620-850-5	Sequence 5, Appl
15	282	83.2	783	20	US-10-642-118-5	Sequence 5, Appl
16	282	83.2	783	20	US-10-642-119-5	Sequence 5, Appl
17	282	83.2	783	20	US-10-642-117-5	Sequence 5, Appl
18	282	83.2	783	20	US-10-642-099-5	Sequence 5, Appl
19	282	83.2	783	20	US-10-642-064-5	Sequence 5, Appl
20	282	83.2	783	21	US-10-642-116-5	Sequence 5, Appl
21	282	83.2	783	21	US-10-642-100-5	Sequence 5, Appl
22	282	83.2	783	21	US-10-642-058-5	Sequence 5, Appl
23	282	83.2	783	21	US-10-642-121-5	Sequence 5, Appl
24	282	83.2	783	22	US-10-642-065-5	Sequence 5, Appl
25	282	83.2	783	22	US-10-642-071-5	Sequence 5, Appl
26	282	83.2	783	22	US-10-642-059-5	Sequence 5, Appl
27	280.6	82.8	349	18	US-10-269-711-18	Sequence 18, Appl
28	280.6	82.8	349	19	US-10-684-109-18	Sequence 18, Appl
29	280.6	82.8	405	17	US-10-309-764-74	Sequence 74, Appl
30	280.6	82.8	405	17	US-10-309-764-70	Sequence 70, Appl
31	279	82.3	405	17	US-10-309-764-66	Sequence 66, Appl
32	277.4	81.8	414	15	US-10-325-694-143	Sequence 62, Appl
33	276.8	81.7	414	15	US-10-325-307A-7	Sequence 143, Appl
34	276.6	81.6	369	21	US-10-625-307A-6	Sequence 7, Appl
35	276.2	81.5	397	9	US-09-878-178-2106	Sequence 2106, Ap
36	276.2	81.5	397	13	US-10-046-935-2106	Sequence 2106, Ap
37	276.2	81.5	397	14	US-10-146-502-2106	Sequence 2106, Ap
38	275.8	81.4	405	17	US-10-309-764-78	Sequence 78, Appl
39	275.8	81.4	405	17	US-10-309-764-138	Sequence 138, Appl
40	275	81.1	345	21	US-10-625-307A-5	Sequence 5, Appl
41	275	81.1	345	21	US-10-625-307A-6	Sequence 6, Appl
42	275	81.1	350	21	US-10-625-307A-36	Sequence 36, Appl
43	274.6	81.0	354	15	US-10-324-493-7	Sequence 7, Appl
44	274.6	81.0	366	21	US-10-727-155-33	Sequence 33, Appl
45	274.4	80.9	376	17	US-10-292-088-73	Sequence 73, Appl

ALIGNMENTS

RESULT 1
US-10-325-694-145
; Sequence 145, Application US/10325694
; Publication No. US20030148463A1
; GENERAL INFORMATION:
; APPLICANT: KUFER, PETER
; APPLICANT: RAUM, TOBIAS
; TITLE OF INVENTION: NOVEL METHOD FOR THE PRODUCTION OF ANTI-HUMAN ANTIGEN
; TITLE OF INVENTION: RECEPTORS AND USES THEREOF
; FILE REFERENCE: 38164000
; CURRENT APPLICATION NUMBER: US/10/325,694
; CURRENT FILING DATE: 2002-12-19
; PRIOR APPLICATION NUMBER: US/09/403,107
; PRIOR FILING DATE: 1999-10-14
; NUMBER OF SEQ ID NOS: 152
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 145
; LENGTH: 372
; TYPE: DNA
; ORGANISM: HUMAN
US-10-325-694-145

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Best Local Similarity 100.0%; Pred. No. 2e-102;
Matches 339; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 GAGGTGCAGCTGCTGAGCTTGGGGAGTCTGTACAGCTTGGGGGTCCCTGAGACTC 60
DB 1 GAGGTGCAGCTGCTGAGCTTGGGGAGTCTGTGTAAGCTTGGGGGTCCCTGAGACTC 60

NUMBER OF SEQ ID NOS: 45
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 9
LENGTH: 342
TYPE: DNA
ORGANISM: Homo sapiens
US-10-738-120-9

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Best Local Similarity 92.6%; Pred. No. 7.8e-86;
Matches 315; Conservative 0; Mismatches 23; Indels 2; Gaps 1;

QY 2 AGTGCAGCTGCTCGAGTCTGGGGAGTGTGTATCAGCTTGGGGGTCCTCGAGACTCT 61
DB 2 AGTGCAGCTGCTGAGTCTGGGGAGGCGTGTGTCTCAAGCTTGGAGTCTCTGAGACTCT 61
QY 62 CCTGTGACAGCTCTGTGATTCACCTTTGATGATTAATGCAATGCTGGTCCGCAAGCTC 121
DB 62 CCTGTGACAGCTCTGTGATTCACCTTCAGTATGAGCAATGCACTGGGTCCGCAAGCTC 121
QY 122 CAGGCAAGGGGCTGAGTGGGTGGTGCAGTATATCATATGATGAAGTAAATTAATCTATG 181
DB 122 CAGGCAAGGGGCTGAGTGGGTGGTGCAGTATATGATGATGAAGTAAATTAATCTATG 181
QY 182 CAGACTCCGTGAAGGGCCGATTCACCATCTCAGAGACAAATTCAGAGACAGCTGTATC 241
DB 182 CAGACTCCGTGAAGGGCCGATTCACCATCTCAGAGACAAATTCAGAGACAGCTGTATC 241
QY 242 TGCATATGAACAGCTGAGAGCTGAGACACAGCTGTGTATTAATCTATGCTGC--GAAAAAGGA 299
DB 242 TGCATATGAACAGCTGAGAGCTGAGAGCCGAGGACAGAGGCTGTGTATTAATCTATGCTG 301
QY 300 AGGCTACTGGGGCCAGGGAACCTGTGTACCGTCTCTCA 339
DB 302 TGACTACTGGGGCCAGGGAACCTGTGTACCGTCTCTCA 341

RESULT 5
US-10-805-177-25

Sequence 25, Application US/10805177
Publication No. US20050084449A1
GENERAL INFORMATION:
APPLICANT: Landes, Gregory M.
APPLICANT: Chen, Francine
APPLICANT: Bezabeh, Binyam
APPLICANT: Foltz, Ian
APPLICANT: Tse, Kam Fai
APPLICANT: Jeffers, Michael
APPLICANT: Meiri, Mehd
APPLICANT: Starling, Gary
APPLICANT: Mezes, Peter
APPLICANT: Khramtsov, Nikolai
TITLE OF INVENTION: ANTIBODIES AGAINST T CELL IMMUNOGLOBULIN
TITLE OF INVENTION: DOMAIN AND MUCIN DOMAIN 1 (TIM-1) ANTIGEN AND USES THEREOF
FILE REFERENCE: ABXCUR.006A
CURRENT FILING DATE: US/10/805,177
PRIOR FILING DATE: 2004-03-19
PRIOR APPLICATION NUMBER: 60/456,652
NUMBER OF SEQ ID NOS: 141
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 25
LENGTH: 537
TYPE: DNA
ORGANISM: Homo sapiens
US-10-805-177-25

Query Match 84.1%; Score 285.2; DB 21; Length 537;
Best Local Similarity 90.2%; Pred. No. 2e-84;
Matches 305; Conservative 0; Mismatches 33; Indels 0; Gaps 0;

2 AGTGCAGCTGCTCGAGTCTGGGGAGTGTGTATCAGCTTGGGGGTCCTCGAGACTCT 61
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DB 2 AGTGCAGCTGAGACAGTCTGGGGAGGCGTGTCTCAGCTTGGAGAGTCCCTGAGACTCT 61
QY 62 CCTGTGACAGCTCTGAGATTCACCTTTGATGATTAATGCAATGCACTGGTCCGCAAGCTC 121
DB 62 CCTGTGACAGCTCTGAGATTCACCTTCAGTATGAGCAATTCAGAGACAGCTGTATC 121
QY 122 CAGGCAAGGGGCTGAGTGGGTGGTGCAGTATATCATATGATGAAGTAAATTAATCTATG 181
DB 122 CAGGCAAGGGGCTGAGTGGGTGGTGCAGTATATGATGATGAAGTAAATTAATCTATG 181
QY 182 CAGACTCCGTGAAGGGCCGATTCACCATCTCAGAGACAAATTCAGAGACAGCTGTATC 241
DB 182 CAGACTCCGTGAAGGGCCGATTCACCATCTCAGAGACAAATTCAGAGACAGCTCTTTC 241
QY 242 TGCATATGAACAGCTGAGAGCTGAGACACAGCTGTGTATTAATCTATGCTGCAGAAAAAGAG 301
DB 242 TGCATATGAACAGCTGAGAGCTGAGACACAGGCTGTGTATTAATCTATGCTGCAGAGACTTGG 301
QY 302 GCTACTGGGGCCAGGGAACCTGTGTACCGTCTCTCA 339
DB 302 ACTACTGGGGCCAGGGAACCTGTGTACCGTCTCTCA 339

RESULT 6
US-10-010-729-8

Sequence 8, Application US/10010729
Publication No. US20030185827A1
GENERAL INFORMATION:
APPLICANT: Rodriguez, Moses
APPLICANT: Miller, David J.
APPLICANT: Pease, Larry R.
TITLE OF INVENTION: Human IgM Antibodies and Diagnostic and
TITLE OF INVENTION: Therapeutic Uses Thereof Particularly in the Central Nervous
TITLE OF INVENTION: System
FILE REFERENCE: 1199-1-005CIP2
CURRENT FILING DATE: US/10/010,729
PRIOR FILING DATE: 2001-11-13
PRIOR APPLICATION NUMBER: 09/730,473
PRIOR FILING DATE: 2000-12-05
PRIOR APPLICATION NUMBER: 09/580,787
PRIOR FILING DATE: 2000-05-30
PRIOR APPLICATION NUMBER: 09/322,862
PRIOR FILING DATE: 1999-05-28
PRIOR APPLICATION NUMBER: 08/779,784
PRIOR FILING DATE: 1997-01-07
PRIOR APPLICATION NUMBER: 08/692,084
PRIOR FILING DATE: 1996-08-08
PRIOR APPLICATION NUMBER: 08/236,520
PRIOR FILING DATE: 1994-04-29
NUMBER OF SEQ ID NOS: 80
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 8
LENGTH: 357
TYPE: DNA
ORGANISM: Homo sapiens
US-10-010-729-8

Query Match 83.9%; Score 284.4; DB 16; Length 357;
Best Local Similarity 90.4%; Pred. No. 3.2e-84;
Matches 322; Conservative 0; Mismatches 16; Indels 18; Gaps 1;

QY 2 AGTGCAGCTGCTCGAGTCTGGGGAGTGTGTATCAGCTTGGGGGTCCTCGAGACTCT 61
DB 2 AGTGCAGCTGCTGAGTCTGGGGAGGCGTGTGTCTCAAGCTTGGAGTCTCTGAGACTCT 61
QY 62 CCTGTGACAGCTCTGTGATTCACCTTTGATGATTAATGCAATGCTGGTCCGCAAGCTC 121
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QY 122 CAGGCAAGGGGCTGAGTGGGTGGTGCAGTATATCATATGATGAAGTAAATTAATCTATG 181
DB 122 CAGGCAAGGGGCTGAGTGGGTGGTGCAGTATATGATGATGAAGTAAATTAATCTATG 181

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; Sequence 5, Application US/10642124
; Publication No. US20040161429A1
; GENERAL INFORMATION:
; APPLICANT: Thorpe, Philip E.
; APPLICANT: Soares, M. Melina

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/ APPLICANT: Ran, Sophia
/ TITLE OF INVENTION: Compositions for Treating Viral Infections Using Immunoconjugates
/ FILE REFERENCE: 3999.002984
/ CURRENT APPLICATION NUMBER: US/10/642,124
/ CURRENT FILING DATE: 2003-08-15
/ PRIOR APPLICATION NUMBER: US 10/621,269
/ PRIOR FILING DATE: 2003-07-15
/ PRIOR APPLICATION NUMBER: 60/396,263
/ PRIOR FILING DATE: 2002-07-15
/ NUMBER OF SEQ ID NOS: 9
/ SOFTWARE: PatentIn version 3.1
/ SEQ ID NO 5
/ LENGTH: 783
/ TYPE: DNA
/ ORGANISM: ARTIFICIAL SEQUENCE
/ FEATURE:
/ OTHER INFORMATION: SYNTHETIC OLIGONUCLEOTIDE
US-10-642-124-5
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Beet Local Similarity 91.7%; Pred. No. 2.6e-83;
Matches 310; Conservative 0; Mismatches 25; Indels 3; Gaps 1;
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QY 1 GAGGTGACAGCTCTCGAGTCTG3GGAGTCTGTGTACAGCTGGGGGCTCCCTGAGACTC 60
DB 19 GAGGTGACAGCTGTGTGAGTCTGGGGGAGCGGTGTCAAGCTGGGAGTCCCTGAGACTC 78
QY 61 TCCTGTGACGCTCTGTGATTCACCTTTGATGATATGATCCATGACTGGTCCGCAAGCT 120
DB 79 TCCTGTGACGCTCTGTGATTCACCTTTGATGATATGATCCATGACTGGTCCGCAAGCT 138
QY 121 CCAGGCAAGGGGCTGAGTGGGTGGGAGTATATCATATGATGAGATGAATTAATTAAT 180
DB 139 CCAGGCAAGGGGCTGAGTGGGTGGGAGTATATCATATGATGAGATGAATTAATTAAT 198
QY 181 GCAGACTCCGTGAAGGCGCATTCACATCTCCAGAGCAATTTCCAGAACAGCGTGTAT 240
DB 199 GCAGACTCCGTGAAGGCGCATTCACATCTCCAGAGCAATTTCCAGAACAGCGTGTAT 258
QY 241 CTCGAATGAACAGCTGTGAGTGAAGACAGGCGTGTATTAATGTCGAAAAAGGAA 300
DB 259 CTCGAATGAACAGCTGTGAGTGAAGACAGGCGTGTATTAATGTCGAAAAAGGAA 318
QY 301 GGCTA---CTGGGGCCAGGGAACCCCTGTGACCGTCTC 335
DB 319 GCTCAGACTTGGGGCCAGGTAACCTGTGACCGTCTC 356
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RESULT 13
US-10-621-269-5
/ Sequence 5, Application US/10621269
/ Publication No. US20040170620A1
/ GENERAL INFORMATION:
/ APPLICANT: Thorpe, Philip E.
/ APPLICANT: Ran, Sophia
/ TITLE OF INVENTION: Selected Antibody Compositions for Binding to Aminophospholipids
/ FILE REFERENCE: 4001.003000
/ CURRENT APPLICATION NUMBER: US/10/621,269
/ CURRENT FILING DATE: 2003-07-15
/ PRIOR APPLICATION NUMBER: 60/396,263
/ PRIOR FILING DATE: 2002-07-15
/ NUMBER OF SEQ ID NOS: 9
/ SOFTWARE: PatentIn version 3.1
/ SEQ ID NO 5
/ LENGTH: 783
/ TYPE: DNA
/ ORGANISM: ARTIFICIAL SEQUENCE
/ FEATURE:
/ OTHER INFORMATION: SYNTHETIC OLIGONUCLEOTIDE
US-10-621-269-5
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Query Match      83.2%; Score 282; DB 19; Length 783;
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Beet Local Similarity 91.7%; Pred. No. 2.6e-83;
Matches 310; Conservative 0; Mismatches 25; Indels 3; Gaps 1;
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QY 1 GAGGTGACAGCTCTCGAGTCTG3GGAGTCTGTGTACAGCTGGGGGCTCCCTGAGACTC 60
DB 19 GAGGTGACAGCTGTGTGAGTCTGGGGGAGCGGTGTCAAGCTGGGAGTCCCTGAGACTC 78
QY 61 TCCTGTGACGCTCTGTGATTCACCTTTGATGATATGATCCATGACTGGTCCGCAAGCT 120
DB 79 TCCTGTGACGCTCTGTGATTCACCTTTGATGATATGATCCATGACTGGTCCGCAAGCT 138
QY 121 CCAGGCAAGGGGCTGAGTGGGTGGGAGTATATCATATGATGAGATGAATTAATTAAT 180
DB 139 CCAGGCAAGGGGCTGAGTGGGTGGGAGTATATCATATGATGAGATGAATTAATTAAT 198
QY 181 GCAGACTCCGTGAAGGCGCATTCACATCTCCAGAGCAATTTCCAGAACAGCGTGTAT 240
DB 199 GCAGACTCCGTGAAGGCGCATTCACATCTCCAGAGCAATTTCCAGAACAGCGTGTAT 258
QY 241 CTCGAATGAACAGCTGTGAGTGAAGACAGGCGTGTATTAATGTCGAAAAAGGAA 300
DB 259 CTCGAATGAACAGCTGTGAGTGAAGACAGGCGTGTATTAATGTCGAAAAAGGAA 318
QY 301 GGCTA---CTGGGGCCAGGGAACCCCTGTGACCGTCTC 335
DB 319 GCTCAGACTTGGGGCCAGGTAACCTGTGACCGTCTC 356
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RESULT 14
US-10-620-850-5
/ Sequence 5, Application US/10620850
/ Publication No. US20040175378A1
/ GENERAL INFORMATION:
/ APPLICANT: Thorpe, Philip E.
/ APPLICANT: Ran, Sophia
/ TITLE OF INVENTION: Selected Antibody Compositions and Methods for Binding to
/ FILE REFERENCE: 4001.003082
/ CURRENT APPLICATION NUMBER: US/10/620,850
/ CURRENT FILING DATE: 2003-07-15
/ PRIOR APPLICATION NUMBER: 60/396,263
/ PRIOR FILING DATE: 2002-07-15
/ PRIOR APPLICATION NUMBER: 09/613,430
/ PRIOR FILING DATE: 2000-07-10
/ NUMBER OF SEQ ID NOS: 9
/ SOFTWARE: PatentIn version 3.1
/ SEQ ID NO 5
/ LENGTH: 783
/ TYPE: DNA
/ ORGANISM: ARTIFICIAL SEQUENCE
/ FEATURE:
/ OTHER INFORMATION: SYNTHETIC OLIGONUCLEOTIDE
US-10-620-850-5
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Query Match      83.2%; Score 282; DB 19; Length 783;
Beet Local Similarity 91.7%; Pred. No. 2.6e-83;
Matches 310; Conservative 0; Mismatches 25; Indels 3; Gaps 1;
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QY 1 GAGGTGACAGCTCTCGAGTCTG3GGAGTCTGTGTACAGCTGGGGGCTCCCTGAGACTC 60
DB 19 GAGGTGACAGCTGTGTGAGTCTGGGGGAGCGGTGTCAAGCTGGGAGTCCCTGAGACTC 78
QY 61 TCCTGTGACGCTCTGTGATTCACCTTTGATGATATGATCCATGACTGGTCCGCAAGCT 120
DB 79 TCCTGTGACGCTCTGTGATTCACCTTTGATGATATGATCCATGACTGGTCCGCAAGCT 138
QY 121 CCAGGCAAGGGGCTGAGTGGGTGGGAGTATATCATATGATGAGATGAATTAATTAAT 180
DB 139 CCAGGCAAGGGGCTGAGTGGGTGGGAGTATATCATATGATGAGATGAATTAATTAAT 198
QY 181 GCAGACTCCGTGAAGGCGCATTCACATCTCCAGAGCAATTTCCAGAACAGCGTGTAT 240
DB 199 GCAGACTCCGTGAAGGCGCATTCACATCTCCAGAGCAATTTCCAGAACAGCGTGTAT 258
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GenCore version 5.1.6
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Minimum DB seq length: 0

Maximum DB seq length: 200000000

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Listing first 45 summaries

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
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6	321	100.0	1630	6	AX023367 Sequence
7	260.2	81.1	321	6	A84374 Sequence 14
8	260.2	81.1	321	6	BD139668 A novel m
9	260.2	81.1	321	6	AX003761 Sequence
10	260.2	81.1	321	6	BD075293 Novel met
11	245.8	76.6	324	6	BD187178 Human-tyr
12	245.8	76.6	324	6	BD187179 Human-tyr
13	244.2	76.1	339	9	AB006842 Homo sapi
14	244.2	76.1	342	6	BD097614 Antibody
15	242.6	75.6	321	6	BD097618 Antibody
16	242.6	75.6	814	9	AB064076 Homo sapi
17	241	75.0	315	9	HSPFAB82VL
18	240.8	75.0	318	12	AF044455 Synthetic
19	240.8	75.0	321	6	ARI60977 Sequence

20	239.4	74.6	339	9	AB006846 Homo sapi
21	237.8	74.1	324	6	AX112586 Sequence
22	237.8	74.1	735	6	CO832185 Sequence
23	237	73.8	324	9	AB095290 Homo sapi
24	236.2	73.6	321	6	A29589 H.sapiens c
25	236.2	73.6	324	12	AF538696 Synthetic
26	236.2	73.6	642	9	AB095273 Homo sapi
27	236.2	73.6	1000	9	HSYK01 Homo reart
28	235.6	73.4	324	9	HSIG311 Homo reart
29	234.6	73.1	612	9	HDMIGKAE Homo reart
30	234.6	73.0	642	9	AB030640 Homo sapi
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33	233	72.5	450	9	AF103775 Homo sapi
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39	231.4	72.1	388	9	HSAS48508 Homo sapi
40	231.4	72.1	720	6	CQ761230 Sequence
41	231.4	72.1	720	6	CQ840583 Sequence
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ALIGNMENTS

RESULT 1	A84380	Sequence 147 from Patent WO9846645.	321 bp	DNA	linear	PAT 21-JAN-2000
LOCUS	A84380					
DEFINITION	A84380					
ACCESSION	A84380.1	GI:6733303				
VERSION						
KEYWORDS						
SOURCE	unidentified					
ORGANISM	unclassified.					
REFERENCE	1 (bases 1 to 321)					
AUTHORS	Kufer, P. and Raum, T.					
TITLE	NOVEL METHOD FOR THE PRODUCTION OF ANTI-HUMAN ANTIGEN RECEPTORS AND USES THEREOF					
JOURNAL	Patent: WO 9846645-A 147 22-OCT-1998;					
FEATURES	KUFER PETER (DE); RAUM TORIAS (DE)					
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Best Local Similarity	100.0%; Pred. No. 2.3e-97;					
Matches	321; Conservative 0; Mismatches 0; Indels 0; Gaps 0;					
QY	1	GAGCTCCAGATGACCCAGTCTCCATCTCCCTGTCTGCATCTGTAGAGACAGATCAC	60			
DB	1	GAGCTCCAGATGACCCAGTCTCCATCTCCCTGTCTGCATCTGTAGAGACAGATCAC	60			
QY	61	ATCACTTGGCGGGGCAAGTCAGAGCATTTAGACGCTATTTAAATGGTATCAGCAGAACCA	120			
DB	61	ATCACTTGGCGGGGCAAGTCAGAGCATTTAGACGCTATTTAAATGGTATCAGCAGAACCA	120			

QY 121 GGACAGCCTCTTAAGTGTGCTATTACTGGGACCTTACCAGGGAATCCGGGGTCCCTGAC 180
DB 121 GGACAGCCTCTTAAGTGTGCTATTACTGGGACCTTACCAGGGAATCCGGGGTCCCTGAC 180
QY 181 CGATTGAGGGGAGGAGTGAATCTGGGACAAATTACACTCTGACATGAGAGCCTGAGCCT 240
DB 181 CGATTGAGGGGAGGAGTGAATCTGGGACAAATTACACTCTGACATGAGAGCCTGAGCCT 240
QY 241 GAAGATTTTGTCTACTTACTTTTGTCAACAGTCTGACAGATTTGGCCATCCTTGGCCAA 300
DB 241 GAAGATTTTGTCTACTTACTTTTGTCAACAGTCTGACAGATTTGGCCATCCTTGGCCAA 300
QY 301 GGGACAGCACTGGACATTTCA 321
DB 301 GGGACAGCACTGGACATTTCA 321

RESULT 2
BD075296 321 bp DNA linear PAT 27-AUG-2002
LOCUS Novel method for the production of anti-human antigen receptors and
DEFINITION uses thereof.
ACCESSION BD075296
VERSION BD075296.1 GI:22620899
KEYWORDS JP 2001519824-A/25.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
REFERENCE 1 (bases 1 to 321)
AUTHORS Kufer,P. and Raum,T.
TITLE Novel method for the production of anti-human antigen receptors and
JOURNAL Patent: JP 2001519824-A 25 23-OCT-2001;
MICROMET AG
COMMENT OS Homo sapiens (human)
PN JP 2001519824-A/25
PD 23-OCT-2001
PR 14-APR-1998 JP 1998543494
PI 14-APR-1997 EP 97106109.8
PI PETER KUFER, TOBIAS RAUM
PC C07K16/00,C07K16/30,A61K39/395
CC Novel method for the production of anti-human antigen CC
receptors and uses
CC thereof
FH Key Location/Qualifiers
FT CDS Location/Qualifiers
1..321
/organism="Homo sapiens"
/mol_type="genomic DNA"
/db_xref="taxon:9606"

ORIGIN
Query Match 100.0%; Score 321; DB 6; Length 321;
Best Local Similarity 100.0%; Pred. No. 2.3e-97;
Matches 321; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

DB 181 CGATTGAGGGGAGGAGTGAATCTGGGACAAATTACACTCTGACATGAGAGCCTGAGCCT 240
QY 241 GAAGATTTTGTCTACTTACTTTTGTCAACAGTCTGACAGATTTGGCCATCCTTGGCCAA 300
DB 241 GAAGATTTTGTCTACTTACTTTTGTCAACAGTCTGACAGATTTGGCCATCCTTGGCCAA 300
QY 301 GGGACAGCACTGGACATTTCA 321
DB 301 GGGACAGCACTGGACATTTCA 321

RESULT 3
BD222938 1630 bp DNA linear PAT 17-JUL-2003
LOCUS Heterom antibodies.
DEFINITION BD222938
ACCESSION BD222938
VERSION BD222938.1 GI:33032708
KEYWORDS JP 2002521053-A/32.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
REFERENCE 1 (bases 1 to 1630)
AUTHORS Kufer,P., Dreier,T., Baeuerle,P.A., Borschert,K. and Zettl,F.
TITLE Heterom antibodies
JOURNAL Patent: JP 2002521053-A 32 16-JUL-2002;
MICROMET AG
COMMENT OS Homo sapiens (human)
PN Mus musculus (mouse)
OS JP 2002521053-A/32
PD 16-JUL-2002
PR 28-JUL-1999 JP 2000562401
PI 28-JUL-1998 EP 9814082.5
PI PETER KUFER, TORSTEN DREIER, PATRICK A BAEUERLE, KATRIN
BORSCHERT,
PI FLORIAN ZETTL
PC C12N15/09,A61K35/76,A61K38/00,A61K38/21,A61P35/00,A61P35/02,
PC C07K19/00,
PC C12N5/10,C12P21/02,G01N33/53,G01N33/53//C12N5/10,C12R1:91),
PC (C12P21/02,C12R1:91),C12N15/00,C12N5/00,A61K37/02,A61K37/66,
PC (C12N5/00,C12R1:91)
CC Heterom antibodies
FH Key Location/Qualifiers
FT CDS Location/Qualifiers
1..1630
/organism="Homo sapiens"
/mol_type="genomic DNA"
/db_xref="taxon:9606"

ORIGIN
Query Match 100.0%; Score 321; DB 6; Length 1630;
Best Local Similarity 100.0%; Pred. No. 2.5e-97;
Matches 321; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GAGCTCCAGATGACCAAGTCTCCTCTGCTGATCTGTAGAGAGAGTCAACC 60
DB 96 GAGCTCCAGATGACCAAGTCTCCTCTGCTGATCTGTAGAGAGAGTCAACC 155
QY 61 ATCACTTGGCCGGGCAAGTCAAGAGCAATTAATTTAAATTGGTATCAGCAAAACA 120
DB 156 ATCACTTGGCCGGGCAAGTCAAGAGCAATTAATTTAAATTGGTATCAGCAAAACA 215
QY 121 GAGAGCCTCCCTAACTGCTCAATTAATTTAAATTGGTATCAGCAAAACA 180
DB 216 GAGAGCCTCCCTAACTGCTCAATTAATTTAAATTGGTATCAGCAAAACA 275
QY 181 CGATTGAGGGGAGGAGTGAATCTGGGACAAATTACACTCTGACATGAGAGCCTGAGCCT 240
DB 276 CGATTGAGGGGAGGAGTGAATCTGGGACAAATTACACTCTGACATGAGAGCCTGAGCCT 335
QY 241 GAAGATTTTGTCTACTTACTTTTGTCAACAGTCTGACAGATTTGGCCATCCTTGGCCAA 300

Db 336 GAAGATTTTGGCTACTTACTTTGTCAACAGCTGTGACAGTTTGGCGATCACTTGGGCCAA 395
QY 301 GGGACACGACTGGACATTCAA 321
Db 396 GGGACACGACTGGACATTCAA 416

RESULT 4
BD222939
LOCUS BD222939 1630 bp DNA linear PAT 17-JUL-2003
DEFINITION Heteromnibodies.
ACCESSION BD222939
VERSION BD222939.1 GI:33032709
KEYWORDS JP 2002521053-A/33.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens

REFERENCE
AUTHORS Kufer,P., Dreier,T., Baeuerle,P.A., Borschert,K. and Zettl,F.
TITLE Heteromnibodies
JOURNAL Patent: JP 2002521053-A 33 16-JUL-2002;
MICROMET AG

COMMENT
OS Homo sapiens (human)
PN JP 2002521053-A/33
PD 16-JUL-2002
PP 28-JUL-1999 JP 2000562401
PR 28-JUL-1998 EP 98114082.5
PI PETER KUFER,TORSTEN DREIER,PATRICK A BAEUERLE,KATRIN BORSCHERT,
BORSCHEIT,
PI FLORIAN ZETTL
PC C12N15/09,A61K35/76,A61K38/00,A61K38/21,A61P35/00,A61P35/02,
PC C07K19/00,
PC C12N5/10,C12P21/02,G01N33/53,G01N33/53// (C12N5/10,C12R1.91),
PC (C12P21/02,C12R1.91),C12N15/00,C12N5/00,A61K37/02,A61K37/66,
PC (C12N5/00,C12R1.91)
CC Heteromnibodies
FH Key Location/Qualifiers
FT CDS Location/Qualifiers
1..1630
/organism="Homo sapiens"
/mol_type="genomic DNA"
/db_xref="taxon:9606"

ORIGIN
Query Match 100.0%; Score 321; DB 6; Length 1630;
Best Local Similarity 100.0%; Pred. No. 2.5e-97;
Matches 321; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GAGCTCCAGATGACCCAGTCTCCATCTCCCTGTCTGCATCTGTAGAGACAGAGTCACC 60
Db 96 GAGCTCCAGATGACCCAGTCTCCATCTCCCTGTCTGCATCTGTAGAGACAGAGTCACC 155
QY 61 ATCACTTGGCCGGGCAAGTCAAGAGATTAGACGCTATTAAATTGGTATCAGAGAAACCA 120
Db 156 ATCACTTGGCCGGGCAAGTCAAGAGATTAGACGCTATTAAATTGGTATCAGAGAAACCA 215
QY 121 GGAACGCTCTTAAGCTGTCTATTTACTGGGATCTAACCGGGAATCCGGGGTCCCTGAC 180
Db 216 GGAACGCTCTTAAGCTGTCTATTTACTGGGATCTAACCGGGAATCCGGGGTCCCTGAC 275
QY 181 CGATTCAAGGGGAGTGAATCTGGGACAAATTACACTCTCCATCAATCAGACAGCTTGAAGCT 240
Db 276 CGATTCAAGGGGAGTGAATCTGGGACAAATTACACTCTCCATCAATCAGACAGCTTGAAGCT 335
QY 241 GAAGATTTTGGCTACTTACTTTGTCAACAGCTGTGACAGTTTGGCGATCACTTGGGCCAA 300
Db 336 GAAGATTTTGGCTACTTACTTTGTCAACAGCTGTGACAGTTTGGCGATCACTTGGGCCAA 395
QY 301 GGGACACGACTGGACATTCAA 321

Db 396 GGGACACGACTGGACATTCAA 416

RESULT 5
AX023365
LOCUS AX023365 1630 bp DNA linear PAT 15-SEP-2000
DEFINITION Sequence 36 from Patent WO0006605.
ACCESSION AX023365
VERSION AX023365.1 GI:10183777
KEYWORDS
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens

REFERENCE
AUTHORS Kufer,P., Zettl,F., Dreier,T., Baeuerle,P.A. and Borschert,K.
TITLE Heteromnibodies
JOURNAL Patent: WO 0006605-A 36 10-FEB-2000;
KUFER PETER (DE) ; ZETTL FLORIAN (DE) ; DREIER TORSTEN (DE) ;
BAEUEBLE PATRICK A (DE) ; BORSCHERT KATRIN (DE) ; MICROMET GRS FUER
BIOMEDIZINIS (DE)

FEATURES
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/db_xref="taxon:9606"
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LSCAFGQSTFSSYGMHWROAPEGKLEWNAVSYDGSNKYVADSYKGRPTISRDSKN
TLYLQMSLSRADTAVYVCAKDMGWSGMRPYVYGMVWGQGTIVTSSGTLDDTT
HTASTKPSVPEPLADSSKSTSGTAAAGLVDPPEPVTVMNSGALTSVHTPPAV
LOSGLVLSLSVTVVPSLSIGQYTCVNVNHRSTKVDKVEPSCMCTSGGGSAP
ASBPSPSTQPEHVNVAIDBARLLLSDTAAEMNRYVISMFDLQPTLQTRLE
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FDCEPVEVDEHHHHH"

ORIGIN
Query Match 100.0%; Score 321; DB 6; Length 1630;
Best Local Similarity 100.0%; Pred. No. 2.5e-97;
Matches 321; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GAGCTCCAGATGACCCAGTCTCCATCTCCCTGTCTGCATCTGTAGAGACAGAGTCACC 60
Db 96 GAGCTCCAGATGACCCAGTCTCCATCTCCCTGTCTGCATCTGTAGAGACAGAGTCACC 155
QY 61 ATCACTTGGCCGGGCAAGTCAAGAGATTAGACGCTATTAAATTGGTATCAGAGAAACCA 120
Db 156 ATCACTTGGCCGGGCAAGTCAAGAGATTAGACGCTATTAAATTGGTATCAGAGAAACCA 215
QY 121 GGAACGCTCTTAAGCTGTCTATTTACTGGGATCTAACCGGGAATCCGGGGTCCCTGAC 180
Db 216 GGAACGCTCTTAAGCTGTCTATTTACTGGGATCTAACCGGGAATCCGGGGTCCCTGAC 275
QY 181 CGATTCAAGGGGAGTGAATCTGGGACAAATTACACTCTCCATCAATCAGACAGCTTGAAGCT 240
Db 276 CGATTCAAGGGGAGTGAATCTGGGACAAATTACACTCTCCATCAATCAGACAGCTTGAAGCT 335
QY 241 GAAGATTTTGGCTACTTACTTTGTCAACAGCTGTGACAGTTTGGCGATCACTTGGGCCAA 300
Db 336 GAAGATTTTGGCTACTTACTTTGTCAACAGCTGTGACAGTTTGGCGATCACTTGGGCCAA 395
QY 301 GGGACACGACTGGACATTCAA 321
Db 396 GGGACACGACTGGACATTCAA 416

RESULT 6

[illegible]

VERSION	AB4374.1	GI:6733297
KEYWORDS	unidentified	
SOURCE	unidentified	
ORGANISM	unclassified.	
REFERENCE	1 (bases 1 to 321)	
AUTHORS	Kufer, P. and Raum, T.	
TITLE	NOVEL METHOD FOR THE PRODUCTION OF ANTI-HUMAN ANTIGEN RECEPTORS AND USES THEREOF	
JOURNAL	Patent: WO 9846645-A 141 22-OCT-1998;	
FEATURES	KUPER PETER (DB); RAUM TOBIAS (DE)	
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ORIGIN		
Query Match	81.1%;	Score 260.2; DB 6; Length 321;
Best Local Similarity	88.2%;	Pred. No. 1e-76;
Matches	283; Conservative	0; Mismatches 38; Indels 0; Gaps 0;
QY	1	GAGCTCCAGATGACCCAGTCTCCATCCTCCCTGCTGTCATCTGTAGAGACAGAGTACC 60
DB	1	GAGCTCCAGATGACCCAGTCTCCATCCTCCCTGCTGTCATCTGTAGAGACAGAGTACC 60
QY	61	ATCACTTGCCGGGGAAGTCAGAGCATTTAGACAGCATTTAATTGGTATCGAGAAACCA 120
DB	61	ATCACTTGTCGAGACAGTCAGAGCATTTAGACAGCATTTAATTGGTATCGAGAAACCA 120
QY	121	GGACAGCCTCTTAAGTGTCTCATTTACTTGCGCATCTACCCGGGAATCCGGGGTCCCTGAC 180
DB	121	GGACAGCCTCTTAAGTGTCTCATTTACTTGCGCATCTACCCGGGAATCCGGGGTCCCTGAC 180
QY	181	CGATTACAGCGGAGTGAATCTGGGACAAATTACACTCTACCATCAGACGCTGCAGCCT 240
DB	181	CGATTACAGTGCACGCGGATCTGGGACAGATTTCACCTTCACCATCAGACGCTGCAGCCT 240
QY	241	GAAGATTTGGTACTTATCTTTTGGCAACAGTCGACAGCTTGGCGATCACCTTCGGGCA 300
DB	241	GAAGATTTGTCACTTACTTACTGACACAGAGTTAGACATCCGTTACACTTTTGGCCAG 300
QY	301	GGGACAGCACTGCACATTCA 321
DB	301	GGGACCAAGCTGGAGATCAAA 321
RESULT 8	BD139668	321 bp DNA linear PAT 18-SEP-2002
LOCUS	BD139668	
DEFINITION	A novel method of identifying binding site domains that retain the capacity of binding to an epitope.	
ACCESSION	BD139668	
VERSION	BD139668.1	GI:23234613
KEYWORDS	JP 2002508924-A/53.	
SOURCE	Homo sapiens (human)	
ORGANISM	Homo sapiens	
REFERENCE	Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.	
AUTHORS	1 (bases 1 to 321)	
TITLE	Kufer, P., Raum, T., Borschert, K., Zetcl, F. and Luterebuee, R.	
JOURNAL	A novel method of identifying binding site domains that retain the capacity of binding to an epitope	
PETER KUPER	Patent: JP 2002508924-A 53 26-MAR-2002;	

ORIGIN	Query Match	81.1%;	Score 260.2;	DB 6;	Length 321;
1. .321	Best Local Similarity	88.2%;	Pred. No. 1e-76;		
/organism="Homo sapiens"	Matches 283;	Conservative	0;	Mismatches 38;	Indels 0;
/mol_type="unassigned DNA"					Gaps 0;
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ORIGIN					
Query Match					
81.1%;	Score 260.2;	DB 6;	Length 321;		
Best Local Similarity	88.2%;	Pred. No. 1e-76;			
Matches 283;	Conservative	0;	Mismatches 38;	Indels 0;	Gaps 0;
ORIGIN					
Query Match					
81.1%;	Score 260.2;	DB 6;	Length 321;		

Best Local Similarity 88.2%; Pred. No. 1e-76;
Matches 283; Conservative 0; Mismatches 38; Indels 0; Gaps 0;

QY 1 GAGCTCCAGATGACCCAGCTCCATCTCTCTGCACTGTGTAGAGACAGAGTCAAC 60
Db 1 GAGCTCCAGATGACCCAGCTCCATCTCTCTGCACTGTGTAGAGACAGAGTCAAC 60
QY 61 ATCACTTGGCGGGCAAGTCAAGACATTAGACAGTATTTAAATTGGTATCAGAGAAACA 120
Db 61 ATCACTTGGCGGGCAAGTCAAGACATTAGACAGTATTTAAATTGGTATCAGAGAAACA 120
QY 121 GGACAGCTCTTAAGCTGCTCATTTTACTGCGGCAATCTACCCGGGAATCCGGGGTCCCTGAC 180
Db 121 GGACAGCTCTTAAGCTGCTCATTTTACTGCGGCAATCTACCCGGGAATCCGGGGTCCCTGAC 180
QY 181 CGATTCAAGGGGCAAGTAAATCTGGGCAAAATTACACTCTACCATCAGCAGCTTGACGCTT 240
Db 181 CGATTCAAGGGGCAAGTAAATCTGGGCAAAATTACACTCTACCATCAGCAGCTTGACGCTT 240
QY 241 GAAGATTTTGTCTACTTCTTTTGTCAACAGTCTGACAGTTTGGCCGATCCTTGGCCAA 300
Db 241 GAAGATTTTGTCTACTTCTTTTGTCAACAGTCTGACAGTTTGGCCGATCCTTGGCCAA 300
QY 301 GGGACACGACTGGACATTCAA 321
Db 301 GGGACACGACTGGACATTCAA 321

RESULT 11
BD187178 324 bp DNA linear PAT 17-JUN-2003

LOCUS BD187178 Human-typed antibody against blood coagulation factor VIII.
DEFINITION BD187178.1 GI:31879467
ACCESSION MO 02101040-A/7.
VERSION MO 02101040-A/7.
KEYWORDS Homo sapiens (human)
SOURCE Homo sapiens
ORGANISM Homo sapiens

REFERENCE Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominiidae; Homo.
1 (bases 1 to 324)
AUTHORS Nakashima,T. and Yuguchi,M.
TITLE Human-typed antibody against blood coagulation factor VIII
JOURNAL Patent: WO 02101040-A 7 19-DEC-2002;
JURIDICAL FOUNDATION THE CHEMO SERO THERAPEUTIC RESEARCH INSTITUTE,
TOSHIHIRO NAKASHIMA,MASATO YUGUCHI

COMMENT OS Homo sapiens (human)
PN MO 02101040-A/7
PF 19-DEC-2002
PR 11-JUN-2002 MO 2002JP005783
PI 12-JUN-2001 JP 01P 177640
PC TOSHIHIRO NAKASHIMA,MASATO YUGUCHI
PC C12N15/09,C07K16/14,C07K7/06,C07K7/08,C12P21/08,G01N33/53 CC
Human-typed antibody against blood coagulation factor VIII FH Key

FEATURES
source Location/Qualifiers
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/mol_type="genomic DNA"
/db_xref="taxon:9606"

ORIGIN
Query Match 76.6%; Score 245.8; DB 6; Length 324;
Best Local Similarity 85.4%; Pred. No. 8e-72;
Matches 274; Conservative 0; Mismatches 47; Indels 0; Gaps 0;

QY 1 GAGCTCCAGATGACCCAGCTCCATCTCTCTGCACTGTGTAGAGACAGAGTCAAC 60
Db 1 GAGCTCCAGATGACCCAGCTCCATCTCTCTGCACTGTGTAGAGACAGAGTCAAC 60
QY 61 ATCACTTGGCGGGCAAGTCAAGACATTAGACAGTATTTAAATTGGTATCAGAGAAACA 120
Db 61 ATCACTTGGCGGGCAAGTCAAGACATTAGACAGTATTTAAATTGGTATCAGAGAAACA 120

Db 61 ATCACTTGGCGGGCAAGTCAAGACATTAGACAGTATTTAAATTGGTATCAGAGAAACA 120
QY 121 GGACAGCTCTTAAGCTGCTCATTTTACTGCGGCAATCTACCCGGGAATCCGGGGTCCCTGAC 180
Db 121 GGACAGCTCTTAAGCTGCTCATTTTACTGCGGCAATCTACCCGGGAATCCGGGGTCCCTGAC 180
QY 181 CGATTCAAGGGGCAAGTAAATCTGGGCAAAATTACACTCTACCATCAGCAGCTTGACGCTT 240
Db 181 CGATTCAAGGGGCAAGTAAATCTGGGCAAAATTACACTCTACCATCAGCAGCTTGACGCTT 240
QY 241 GAAGATTTTGTCTACTTCTTTTGTCAACAGTCTGACAGTTTGGCCGATCCTTGGCCAA 300
Db 241 GAAGATTTTGTCTACTTCTTTTGTCAACAGTCTGACAGTTTGGCCGATCCTTGGCCAA 300
QY 301 GGGACACGACTGGACATTCAA 321
Db 301 GGGACACGACTGGACATTCAA 321

RESULT 12
BD187179 324 bp DNA linear PAT 17-JUN-2003

LOCUS BD187179 Human-typed antibody against blood coagulation factor VIII.
DEFINITION BD187179.1 GI:31879468
ACCESSION MO 02101040-A/8.
VERSION MO 02101040-A/8.
KEYWORDS Homo sapiens (human)
SOURCE Homo sapiens
ORGANISM Homo sapiens

REFERENCE Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominiidae; Homo.
1 (bases 1 to 324)
AUTHORS Nakashima,T. and Yuguchi,M.
TITLE Human-typed antibody against blood coagulation factor VIII
JOURNAL Patent: WO 02101040-A 8 19-DEC-2002;
JURIDICAL FOUNDATION THE CHEMO SERO THERAPEUTIC RESEARCH INSTITUTE,
TOSHIHIRO NAKASHIMA,MASATO YUGUCHI

COMMENT OS Homo sapiens (human)
PN MO 02101040-A/8
PF 19-DEC-2002
PR 11-JUN-2002 MO 2002JP005783
PI 12-JUN-2001 JP 01P 177640
PC TOSHIHIRO NAKASHIMA,MASATO YUGUCHI
PC C12N15/09,C07K16/14,C07K7/06,C07K7/08,C12P21/08,G01N33/53 CC
Human-typed antibody against blood coagulation factor VIII FH Key

FEATURES
source Location/Qualifiers
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ORIGIN
Query Match 76.6%; Score 245.8; DB 6; Length 324;
Best Local Similarity 85.4%; Pred. No. 8e-72;
Matches 274; Conservative 0; Mismatches 47; Indels 0; Gaps 0;

QY 1 GAGCTCCAGATGACCCAGCTCCATCTCTCTGCACTGTGTAGAGACAGAGTCAAC 60
Db 1 GAGCTCCAGATGACCCAGCTCCATCTCTCTGCACTGTGTAGAGACAGAGTCAAC 60
QY 61 ATCACTTGGCGGGCAAGTCAAGACATTAGACAGTATTTAAATTGGTATCAGAGAAACA 120
Db 61 ATCACTTGGCGGGCAAGTCAAGACATTAGACAGTATTTAAATTGGTATCAGAGAAACA 120
QY 121 GGACAGCTCTTAAGCTGCTCATTTTACTGCGGCAATCTACCCGGGAATCCGGGGTCCCTGAC 180
Db 121 GGACAGCTCTTAAGCTGCTCATTTTACTGCGGCAATCTACCCGGGAATCCGGGGTCCCTGAC 180
QY 181 CGATTCAAGGGGCAAGTAAATCTGGGCAAAATTACACTCTACCATCAGCAGCTTGACGCTT 240
Db 181 CGATTCAAGGGGCAAGTAAATCTGGGCAAAATTACACTCTACCATCAGCAGCTTGACGCTT 240
QY 241 GAAGATTTTGTCTACTTCTTTTGTCAACAGTCTGACAGTTTGGCCGATCCTTGGCCAA 300
Db 241 GAAGATTTTGTCTACTTCTTTTGTCAACAGTCTGACAGTTTGGCCGATCCTTGGCCAA 300

QY 241 GAAGATTTTGTCTACTTTTGTCAACAGTCTGACAGTTGGCCGATCACTTGGGCCAA 300
 DB 241 GAAGATTTTGTCACTTACTTACTCTGACAGATTACAGTACCCCGATCACTTGGGCCAA 300
 QY 301 GGGACACGACTGGACATTCAA 321
 DB 301 GGGACACGACTGGACATTCAA 321
 RESULT 13
 LOCUS AB006842 339 bp mRNA linear PRI 09-SEP-1997
 DEFINITION Homo sapiens mRNA for HRV Fab N6-VL, partial cds.
 ACCESSION AB006842
 VERSION AB006842.1 GI:2385484
 KEYWORDS HRV Fab N6-VL.
 SOURCE Homo sapiens (human)
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Primates; Catarrhini; Homidae; Homo.
 REFERENCE
 1 (sites)
 Itoh, K. and Suzuki, T.
 Human anti-rotavirus Fab
 JOURNAL Unpublished
 2 (bases 1 to 339)
 Itoh, K.
 Direct Submission
 Submitted (26-AUG-1997) Kunihiko Itoh, Akita University Hospital,
 Pharmaceutical Science, Hondo 1-1-1, Akita, Akita 010, Japan
 (E-mail: itohk@hos.akita-u.ac.jp, Tel: +81-188-34-1111,
 Fax: +81-188-36-2628)
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 AKRLIYAASSIQSGVPSRFSGSGSTDTLTITSSIQPEDPATYTCQGSYSPITFGQ
 GRLEIKRTVA"
 ORIGIN
 Query Match 76.1%; Score 244.2; DB 9; Length 339;
 Best Local Similarity 85.0%; Pred. No. 2.8e-71;
 Matches 273; Conservative 0; Mismatches 48; Indels 0; Gaps 0;
 QY 1 GAGCTCCAGATGACCCAGTCTCCATCTCCCTGCTGCACTGTGAGAGACAGAGTACC 60
 DB 7 GAGCTCGATGACCCAGTCTCCATCTCCCTGCTGCACTGTGAGAGACAGAGTACC 66
 QY 61 ATCACTTGGCCGGGCAAGTCAAGACATTAGACGATTAATTTGATACAGAGAAACA 120
 DB 67 TTCACCTGCGGGCAAGTCAAGACATTAGACGATTAATTTGATACAGAGAAACA 126
 QY 121 GGAAGCCTCTTACCTGCTCATTTACTGGGCACTTACCCGGGAATCCGGGGTCCCTGAC 180
 DB 127 GGGAAAGCCCTTACCTGCTCATTTACTGGGCACTTACCCGGGAATCCGGGGTCCCTGAC 186
 QY 181 CGATTGAGGGGAGTGAATCTGGGCAAAATTACACTTCACATCAGACAGCCTGACGCT 240
 DB 187 AGGTTGAGGGGAGTGAATCTGGGCAAAATTACACTTCACATCAGACAGCCTGACGCT 246
 QY 241 GAAGATTTTGTCTACTTTTGTCAACAGTCTGACAGTTGGCCGATCACTTGGGCCAA 300
 DB 247 GAAGATTTTGTCACTTACTTACTCTGACAGATTACAGTACCCCGATCACTTGGGCCAA 306
 QY 301 GGGACACGACTGGACATTCAA 321

DB 307 GGGACACGACTGGACATTCAA 327
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 LOCUS BD097614 342 bp DNA linear PAT 27-AUG-2002
 DEFINITION Antibody library.
 ACCESSION BD097614
 VERSION BD097614.1 GI:22643188
 KEYWORDS WO 0162907-A/69.
 SOURCE Homo sapiens (human)
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Primates; Catarrhini; Homidae; Homo.
 REFERENCE
 1 (bases 1 to 342)
 Kurosawa, Y., Akahori, Y., Iba, Y., Morino, K., Shinohara, M.,
 Takahashi, M., Okuno, Y. and Shiraki, K.
 JOURNAL Antibody library
 Patient: WO 0162907-A 69 30-AUG-2001;
 MEDICAL & BIOLOGICAL LABORATORIES CO LTD, YOSHITAKA KUROSAWA,
 YASUSHI AKAHORI, YOSHITAKA IBA, KAZUHIKO MORINO, MIDORI SHINOHARA,
 MOTOHIDE TAKAHASHI, YOSHINOBU OKUNO, KIMIYASU SHIRAKI
 OS Homo sapiens (human)
 PN WO 0162907-A/69
 PD 30-AUG-2001 WO 2001JP001298
 PF 22-FEB-2001 WO 2001JP001298
 PR 22-FEB-2000 JP 00P 50543
 PI YOSHITAKA KUROSAWA, YASUSHI AKAHORI, YOSHITAKA IBA, KAZUHIKO PI
 MORINO,
 PI MIDORI SHINOHARA, MOTOHIDE TAKAHASHI, YOSHINOBU OKUNO, KIMIYASU
 SHIRAKI
 PC C12N15/09, C07K16/00//C12P21/08
 CC Antibody library
 FH Key
 FT source Location/Qualifiers
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 Query Match 76.1%; Score 244.2; DB 6; Length 342;
 Best Local Similarity 85.0%; Pred. No. 2.8e-71;
 Matches 273; Conservative 0; Mismatches 48; Indels 0; Gaps 0;
 QY 1 GAGCTCCAGATGACCCAGTCTCCATCTCCCTGCTGCACTGTGAGAGACAGAGTACC 60
 DB 1 GAGCTCGATGACCCAGTCTCCATCTCCCTGCTGCACTGTGAGAGACAGAGTACC 66
 QY 61 ATCACTTGGCCGGGCAAGTCAAGACATTAGACGATTAATTTGATACAGAGAAACA 120
 DB 61 ATCACTTGGCCGGGCAAGTCAAGACATTAGACGATTAATTTGATACAGAGAAACA 120
 QY 121 GGAAGCCTCTTACCTGCTCATTTACTGGGCACTTACCCGGGAATCCGGGGTCCCTGAC 180
 DB 121 GGGAAAGCCCTTACCTGCTCATTTACTGGGCACTTACCCGGGAATCCGGGGTCCCTGAC 180
 QY 181 CGATTGAGGGGAGTGAATCTGGGCAAAATTACACTTCACATCAGACAGCCTGACGCT 240
 DB 181 AGGTTGAGGGGAGTGAATCTGGGCAAAATTACACTTCACATCAGACAGCCTGACGCT 240
 QY 241 GAAGATTTTGTCTACTTTTGTCAACAGTCTGACAGTTGGCCGATCACTTGGGCCAA 300
 DB 241 GAAGATTTTGTCACTTACTTACTCTGACAGATTACAGTACCCCGATCACTTGGGCCAA 300
 QY 301 GGGACACGACTGGACATTCAA 321
 DB 301 GGGACACGACTGGACATTCAA 321

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RESULT 15
BD097618
LOCUS      BD097618      321 bp      DNA      linear      PAT 27-AUG-2002
DEFINITION Antibody library.
ACCESSION  BD097618
VERSION    BD097618.1 GI:22643192
KEYWORDS   WO 0162907-A/73.
SOURCE     Homo sapiens (human)
ORGANISM   Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
            1 (bases 1 to 321)
REFERENCE   1 (bases 1 to 321)
AUTHORS    Kurosawa,Y., Akahori,Y., Iba,Y., Morino,K., Shinohara,M.,
            Takahashi,M., Okuno,Y. and Shiraki,K.
TITLE      Antibody library
JOURNAL     Patent: WO 0162907-A 73 30-AUG-2001;
            MEDICAL & BIOLOGICAL LABORATORIES CO LTD, YOSHIKAZU KUROSAWA,
            YASUSHI AKAHORI, YOSHITAKA IBA, KAZUHIKO MORINO, MIDORI SHINOHARA,
            MOTOHIDE TAKAHASHI, YOSHINOBU OKUNO, KIMIYASU SHIRAKI
COMMENT     OS Homo sapiens (human)
            PN WO 0162907-A/73
            PD 30-AUG-2001
            PF 22-FEB-2001 WO 2001JP001298
            PR 22-FEB-2000 JP 00P 50543
            PI YOSHIKAZU KUROSAWA, YASUSHI AKAHORI, YOSHITAKA IBA, KAZUHIKO PI
            MORINO,
            MIDORI SHINOHARA, MOTOHIDE TAKAHASHI, YOSHINOBU OKUNO, KIMIYASU
            SHIRAKI
            PC C12N15/09,C07K16/00//C12P21/08
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            FH Key
            FT source
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                           /db_xref="taxon:9606"

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Query Match      75.6%; Score 242.6; DB 6; Length 321;
Best Local Similarity 84.7%; Pred. No. 9.7e-71;
Matches 272; Conservative 0; Mismatches 49; Indels 0; Gaps 0;

QY      1 GAGCTCCAGATGACCCAGTCTCCATCTCCCTGTCGATCTGTAGAGACAGAGTCACC 60
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DB       1 GACATGTATGACCCAGTCTCCATCTCCCTGTCGATCTGTAGAGACAGAGTCACC 60

QY      61 ATCACTTGC CGGGCAAGTCAGAGCATTTAGCAGCTATTTAAATTGGTATCAGAGAAACCA 120
        |||
DB       61 ATCACTTGC CGGGCAAGTCAGAGCATTTAGCAGCTATTTAAATTGGTATCAGAGAAACCA 120

QY      121 GGAACGCTTCTTAAGTGTCTATTACTGGGCACTTACCCGGGAATCCGGGGTCCCTGAC 180
        |||
DB       121 GGAAGAACCCCTTAAGTGTCTATTACTGGGCACTTACCCGGGAATCCGGGGTCCCTATCA 180

QY      181 CGATTGAGGGGAGTGAATCTGGGCAAAATTACACTCCACCATCAGCAGCCTGAGCCT 240
        |||
DB       181 AGGTTGAGGGGAGTGAATCTGGGCAAAATTACACTCCACCATCAGCAGCCTGAGCCT 240

QY      241 GAAGATTTTGTACTTACTTTTGTCAACAGTCTGACAGTTTGGCGATCACTTCGGCCAA 300
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DB       241 GAAGATTTTGTACTTACTTTTGTCAACAGTCTGACAGTTTGGCGATCACTTCGGCCAA 300

QY      301 GGGACACGACTGGACATTCAA 321
        |||
DB       301 GGGACACGACTGGAGATTAAA 321
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Search completed: September 11, 2005, 21:22:04
JOD time : 1633.32 secs

GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: September 11, 2005, 17:46:48 ; Search time 337.536 Seconds
(without alignments)
5629.725 Million cell updates/sec

Title: US-09-403-107-147

Perfect score: 321

Sequence: 1 gagcccccagatgaccacagtc.....ggacacgactgacatcca 321

Scoring table: IDENTITY NUC

Gapop 10.0 , Gapext 1.0

Searched: 4390206 seqs, 2959870667 residues

Total number of hits satisfying chosen parameters: 8780412

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : N_Geneseq_16dec04:*

1: geneeqn1980s:*

2: geneeqn1990s:*

3: geneeqn2000s:*

4: geneeqn2001as:*

5: geneeqn2001bs:*

6: geneeqn2002as:*

7: geneeqn2002bs:*

8: geneeqn2003as:*

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11: geneeqn2003ds:*

12: geneeqn2004as:*

13: geneeqn2004bs:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	321	100.0	321	2	AAV68539
2	321	100.0	1630	3	AAZ50588
3	321	100.0	1630	3	AAZ50587
4	260.2	81.1	321	2	AAV68536
5	260.2	81.1	321	2	AAV77237
6	249	77.6	321	11	ADO51603
7	245.8	76.1	324	4	AAH47727
8	244.2	75.6	321	4	AAH47721
9	242.6	75.0	321	5	AAH68651
10	240.8	75.0	321	9	ACD45315
11	240.8	75.0	321	9	ACD45315
12	240.2	74.8	321	12	ADO36505
13	240.2	74.8	321	12	ADO36497
14	238.6	74.3	327	10	ADD89879
15	238.6	74.3	327	13	ADS64656
16	238.6	74.3	327	13	ADS64655
17	237.8	74.1	321	13	ADP22249
18	237.8	74.1	324	4	AAO3434
19	237.8	74.1	735	13	ADR28103
20	236.2	73.6	321	11	ADO51602

21	236.2	73.6	321	12	ADP22235	ADP22235 Human ant
22	236.2	73.6	321	12	ADP22253	ADP22253 Human ant
23	236.2	73.6	458	12	ADK52349	ADK52349 Human ant
24	235	73.2	1106	6	ABQ54241	ABQ54241 Human ova
25	234.4	73.0	936	3	AAA27390	AAA27390 Human IGF
26	233	72.6	321	12	ADP22243	ADP22243 Human ant
27	232.8	72.5	917	3	AAA27381	AAA27381 Human IGF
28	231.4	72.1	333	5	AAH74684	AAH74684 Nucleotid
29	231.4	72.1	333	10	ABT34320	ABT34320 Hepatitis
30	231.4	72.1	720	2	AAH36070	AAH36070 DNA encod
31	231.4	72.1	720	10	ABZ76706	ABZ76706 Human ser
32	231.4	72.1	720	12	ADL92368	ADL92368 Human pha
33	231.4	72.1	720	12	ADQ71166	ADQ71166 HSA Heavy
34	231.4	72.1	900	5	AAH74688	AAH74688 Nucleotid
35	231.4	72.1	900	10	ABT34324	ABT34324 Hepatitis
36	229.8	71.6	321	9	AAH57375	AAH57375 Human SFI
37	229.8	71.6	324	10	AAH52120	AAH52120 Human ant
38	229.8	71.6	396	2	AAH75423	AAH75423 Human ant
39	229.8	71.6	684	4	AAH30052	AAH30052 TRO005 Ka
40	229.8	71.6	720	10	ABT34315	ABT34315 Hepatitis
41	229.8	71.6	729	3	AAH11630	AAH11630 Human Imm
42	229.8	71.6	729	6	ABH46009	ABH46009 HumanImm
43	228.2	71.1	321	11	ADO51601	ADO51601 Human TAG
44	228.2	71.1	324	4	AAH29086	AAH29086 Human HIV
45	226.2	71.1	324	4	AAH29073	AAH29073 Human HIV

ALIGNMENTS

RESULT 1		AAV68539	standard; DNA, 321 BP.
ID	AAV68539	standard; DNA, 321 BP.	
AC	AAV68539;		
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DT	16-FEB-1999	(first entry)	
XX			
DB	Nucleotide sequence of human kappa 5.1 light chain variable region.		
XX			
KW	Human; kappa 5.1 light chain variable region; receptor; antigen; tumour;		
KW	auto-immune disease; graft rejection; allergy; inflammatory disease;		
KW	endocrine disease; degenerative disease; se.		
OS	Homo sapiens.		
XX			
FT	Key	Location/Qualifiers	
FT	CDS	1..321	
FT		/product="human kappa 5.1 light chain variable region"	
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PN	WO9846645-A2.		
XX			
PD	22-OCT-1998.		
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PP	14-APR-1998;	98WO-EP002180.	
XX			
PR	14-APR-1997;	97EP-00106109.	
XX			
PA	(KUPER/) KUPER P.		
XX	(RAUM/) RAUM T.		
XX			
PI	Kufer P, Raum T;		
XX			
DR	WPI, 1998-594564/50.		
XX	P-PsDB; AAV68539.		
PT	Production of anti-human antigen receptors - by selecting a combination		
PT	of functionally rearranged VH and VL immunoglobulin chains expressed from		
XX	a recombinant vector.		
PS	Claim 9; Fig 9; 84pp; English.		
XX			

CC This is the nucleotide sequence of the human kappa light chain variable
CC region, used in the method of the invention. for providing receptors that
CC can be used for targeting antigens in humans without being immunogenic
CC themselves. Such receptors can be used for treating diseases such as
CC tumours or auto-immune diseases, graft rejection after transplantation,
CC infectious diseases by targeting cellular receptors as well as allergic,
CC inflammatory, endocrine and degenerative diseases by targeting key
CC molecules involved in the pathological process

SQ Sequence 321 BP; 81 A; 93 C; 72 G; 75 T; 0 U; 0 Other;

Query Match	100.0%	Score 321;	DB 2;	length 321;
Best Local Similarity	100.0%;	Pred. No. 1.5e-93;		
Matches 321; Conservative	0;	Mismatches 0;	Indels 0;	Gaps 0;

OY	1	GAGCTCGAATGACCAAGTCTCATCTCCCTGTGTGATCTGTAGAGAAAGAGTACC	60
Db	1	GAGCTCGAAGTACCAAGTCTCATCTCCCTGTGTGATCTGTAGAGAAAGAGTACC	60
OY	61	ATCATCTGCCGGGCAAGTCAGAGCATTTAGACGCTATTTAAATTGGTATCAGCAAAACA	120
Db	61	ATCATCTGCCGGGCAAGTCAGAGCATTTAGACGCTATTTAAATTGGTATCAGCAAAACA	120
OY	121	GGAAGGCTCTTAAGCTGCTCATTTATCTGGGATCTAACCGGGATCCGGGGTCCCTGAC	180
Db	121	GGAAGGCTCTTAAGCTGCTCATTTATCTGGGATCTAACCGGGATCCGGGGTCCCTGAC	180
OY	181	CGATTTCAGCGGAGTGAATCTGGGCAAAATTACACTTTCACCATCAGCAGCTCAGCCT	240
Db	181	CGATTTCAGCGGAGTGAATCTGGGCAAAATTACACTTTCACCATCAGCAGCTCAGCCT	240
OY	241	GAAAGATTTTCTTACTTACTTTTGTCAACAGTCTGACAGTTTGGCGATCAGCTTCGGGCCAA	300
Db	241	GAAAGATTTTCTTACTTACTTTTGTCAACAGTCTGACAGTTTGGCGATCAGCTTCGGGCCAA	300
OY	301	GGAGACGACTGAGCATTTCAA 321	
Db	301	GGAGACGACTGAGCATTTCAA 321	

RESULT 2
AAZ50588
ID AAZ50588 standard; DNA; 1630 BP.

AC AAZ50588 ;

DT 23-MAY-2000 (first entry)

DE HD70scFv-Ck-interleukin 2 encoding DNA

KM HD70; single-chain variable fragment; scFv; 17-1A antigen; human; EPCAM;
 KM epithelial cell adhesion molecule; inflammatory cytokines; IL-2;
 KM interleukin-2; Cκ-domain; kappa light chain constant domain;
 KM heteronucleobody; multifunctional compound; immunoglobulin; cytostatic;
 KM immunostimulatory; antileukaemia; diagnosis; prevention;
 KM antiproliferative; treatment; malignant; haematopoietic cell; lymphoma;
 KM leukaemia; solid tumour; carcinoma; melanoma; sarcoma; ds

OS Homo sapiens.

FH	Key	Location/Qualifiers
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FT      / *tag= a
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FT	misc feature	96. .842

/label= HD70 scFv
FT

PN W0200006605-A2.

PD 10-FEB-2000.

PF 28-JUL-1999; 99WO-EP005416.

XX 28-JUL-1998; 98EP-00114082.
PR

PA (MICR-) MICROMET GES BIOMEDIZINISCHE FORSCHUNG.

PI Kufer P, Dreier T, Baenerle PA, Borschert K, Zettl F,

DR WPI; 2000-195265/17

XX

PT malignant cell growth and for detection and diagnosis.

PS Claim 8; Fig 55B; 166pp; English.

Claim 8; Fig 55B; 166pp; English.

CC The patent discloses heteroantibodies which are multifunctional compounds
CC producible in a mammalian host cell as a secretable and fully functional
CC heterodimer of two polypeptide chains, where one of the polypeptide
CC chains comprises, a CH1-domain (constant domain of an immunoglobulin
CC heavy chain) and the other chain comprises C μ -domain (constant domain of
CC an immunoglobulin light chain). The polypeptide chains further comprise,
CC fused to the constant domains at least two (polypeptides having
CC different receptor or ligand functions, where further at least two of these
CC different (polypeptides lack an intrinsic affinity for one another and
CC are linked via the constant domains. The heteroantibodies have
CC cytostatic, immunostimulatory, antileukemia and antiproliferative
CC activities. These compounds can be used for diagnosing, preventing and
CC treating malignant cell growth related to malignancies of haematopoietic
CC cells e.g. lymphomas and leukemias, or to solid tumours e.g. carcinomas,
CC melanomas and sarcomas. The present sequence is a DNA encoding right
CC chain of a heteroantibody comprising HD70 single-chain Fv (scFv) fragment
CC N-terminally linked to human C κ domain (constant domain of immunoglobulin
CC kappa light chain) which bears at its C-terminus the human inflammatory
CC cytokine interleukin-2 (IL-2). HD70 scFv specifically recognises the
CC human epithelial cell adhesion molecule (EpCAM) also called 17-1A antigen
XX

Sequence 1630 BF; 445 A; 410 C; 408 G; 367 T; 0 U; 0 Other;

Sequence 1630 BP; 445 A; 410 C; 408 G; 367 T; 0 U; 0 Other;

Query Match	100.0%;	Score 321;	DB 3;	Length 1630;
Best Local Similarity	100.0%;	Pred. No. 2.8e-93;		
Matches 321; Conservative	0;	Mismatches	0;	Indels 0; Gaps 0;

QY	I	GAGCTCCAGATGACCCAGATCTCGATCTCTCTGTCTGATCTGTGAGAGACAGAGTCAAC	60
Db	96	GAGCTCCAGATGACCCAGATCTCGATCTCTCTGTCTGATCTGTGAGAGACAGAGTCAAC	155
QY	61	ATCATCTGGCCGGGACAGTCAGAGCATTTAGACACTATTTAAATTGGTATCAGCAGAAACA	120
Db	156	ATCATCTGGCCGGGACAGTCAGAGCATTTAGACACTATTTAAATTGGTATCAGCAGAAACA	215
QY	121	GGACAGCCTCTTAAGCTGCTCATTTACTGGGATCTACCCGGGATCCGGGGTCCCTGAC	180
Db	216	GGACAGCCTCTTAAGCTGCTCATTTACTGGGATCTACCCGGGATCCGGGGTCCCTGAC	275
QY	181	CGATTTCAGCGGACAGTGATCTGGGACAAATTACACTCTACCATCAGCAGCTCAGCCT	240
Db	276	CGATTTCAGCGGACAGTGATCTGGGACAAATTACACTCTACCATCAGCAGCTCAGCCT	335
QY	241	GAAGATTTGCTACTTAACCTTTTGTCAACAGCTGACAGTTTGGCATCACTTTGGGCCAA	300
Db	336	GAAGATTTGCTACTTAACCTTTTGTCAACAGCTGACAGTTTGGCATCACTTTGGGCCAA	395
QY	301	GGGACAGACTGGACATTTCAA	321
Db	396	GGGACAGACTGGACATTTCAA	416

RESULT 3	
AAZ50587	
ID	AAZ50587 standard; DNA; 1630 BP.

AC AAZ50587;

XX

DT 23-MAY-2000 (first entry)
 XX HD70scFv-CH1-GM-CSF chain encoding DNA.
 XX
 XX HD70; single-chain variable fragment; scFv; 17-1A antigen; human; BPCAM;
 KW epithelial cell adhesion molecule; inflammatory cytokine; GM-CSF;
 KW granulocyte/macrophage colony stimulating factor; heteronitbody;
 KW CH1-domain; multifunctional compound; heavy chain constant domain;
 KW immunoglobulin; cytostatic; immunostimulatory; anti-leukemia; diagnosis;
 KW antiproliferative; prevention; treatment; malignant; hematopoietic cell;
 KW lymphoma; leukemia; solid tumour; carcinoma; melanoma; sarcoma; ds.
 OS Homo sapiens.
 XX
 XX Key Location/Qualifiers
 FH CDS 39..1610
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 FT /product= "HD70scFv-CH1-GM-CSF chain"
 FT /*tag= b
 FT /label= HD70_scFv
 FT misc_feature
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 XX WO200006605-A2.
 XX
 XX 10-FEB-2000.
 XX
 XX 28-JUL-1999; 99WO-EP005416.
 XX
 XX 28-JUL-1998; 98EP-00114082.
 XX
 XX (MICR-) MICROMET GES BIOMEDIZINISCHE FORSCHUNG.
 XX
 XX Kufer P, Dreier T, Baenerle PA, Borschert K, Zettl P;
 PI WPI: 2000-195265/17.
 DR P-PSDB; AAY44994.
 XX
 XX New multifunctional compounds useful for preventing and/or treating
 PT malignant cell growth and for detection and diagnosis.
 PT
 XX Claim 8; Fig 55A; 166pp; English.
 XX
 CC The patent discloses heteronitbodies which are multifunctional compounds
 CC producible in a mammalian host cell as a secretable and fully functional
 CC heterodimer of two polypeptide chains, where one of the polypeptide
 CC chains comprises, a CH1-domain (constant domain of an immunoglobulin
 CC heavy chain) and the other chain comprises C μ -domain (constant domain of
 CC an immunoglobulin light chain). The polypeptide chains further comprise,
 CC fused to the constant domains at least two (poly)peptides having
 CC different receptor or ligand functions, where further at least two of the
 CC different (poly)peptides lack an intrinsic affinity for one another and
 CC are linked via the constant domains. The heteronitbodies have
 CC cytostatic, immunostimulatory, anti-leukemia and antiproliferative
 CC activities. These compounds can be used for diagnosing, preventing and
 CC treating malignant cell growth related to malignancies of haematopoietic
 CC cells e.g. lymphomas and leukemias, or to solid tumours e.g. carcinomas,
 CC melanomas and sarcomas. The present sequence is a DNA encoding left chain
 CC of a heteronitbody comprising HD70 single-chain Fv (scFv) fragment N-
 CC terminally linked to human CH1 domain which bears at its C-terminus the
 CC human inflammatory cytokine granulocyte/macrophage colony stimulating
 CC factor (GM-CSF), plus a hexahistidine sequence for ease of purification.
 CC HD70 scFv specifically recognises the human epithelial cell adhesion
 CC molecule (BPCAM) also called 17-1A antigen
 CC
 XX
 XX Sequence 1630 BP; 376 A; 484 C; 437 G; 333 T; 0 U; 0 Other;
 SQ
 Query Match 100.0%; Score 321; DB 3; Length 1630;
 Best Local Similarity 100.0%; Pred. No. 2.8e-93;
 Matches 321; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 GAGCTCCAGATGACCCAGTCTCCATCTCTCTGTCATCTGTAGAGACAGAGTCAACC 60
 DB 96 GAGCTCCAGATGACCCAGTCTCCATCTCTCTGTCATCTGTAGAGACAGAGTCAACC 155

QY 61 ATCACTTCCCGGAGAGTCAGACATTTAGACATTTAAATGGTATCAGAGAAACCA 120
 DB 156 ATCACTTCCCGGAGAGTCAGACATTTAGACATTTAAATGGTATCAGAGAAACCA 215
 QY 121 GAGACGCTCCCTAAGCTCTCTCATTTACTGAGCATCAACCGGAAATCCGGGTCCCTGAC 180
 DB 216 GAGACGCTCCCTAAGCTCTCTCATTTACTGAGCATCAACCGGAAATCCGGGTCCCTGAC 275
 QY 181 CGATTACGCGGAGTGAATCTGGGACAAATTAACCTTCACCATCAGACAGCTCGACCT 240
 DB 276 CGATTACGCGGAGTGAATCTGGGACAAATTAACCTTCACCATCAGACAGCTCGACCT 335
 QY 241 GAGATTTTGTCTACTTCTTTTGTCAAGCTGACATTTTGGATCCATCCCTTGGCCAA 300
 DB 336 GAGATTTTGTCTACTTCTTTTGTCAAGCTGACATTTTGGATCCATCCCTTGGCCAA 395
 QY 301 GAGACAGCAGTGCATTTCAA 321
 DB 396 GAGACAGCAGTGCATTTCAA 416
 RESULT 4
 AAV68536
 ID AAV68536 standard; DNA; 321 BP.
 XX
 XX AAV68536;
 XX
 XX 16-FEB-1999 (first entry)
 XX
 DE Nucleotide sequence of human kappa 8 light chain variable region.
 XX
 KW Human; kappa 8 light chain variable region; receptor; antigen; tumour;
 KW auto-immune disease; graft rejection; allergy; inflammatory disease;
 KW endocrine disease; degenerative disease; ss.
 XX
 OS Homo sapiens.
 XX
 XX Key Location/Qualifiers
 FH CDS 1..321
 FT /*tag= a
 FT /product= "human kappa 8 light chain variable region"
 FT
 XX
 XX WO9846645-A2.
 XX
 XX 22-OCT-1998.
 XX
 XX 14-APR-1998; 98WO-EP002180.
 XX
 XX 14-APR-1997; 97BP-00106109.
 XX
 XX (KUEP/) KUEP P.
 XX (RAUM/) RAUM T.
 XX
 PI Kufer P, Raum T;
 DR WPI: 1998-594564/50.
 DR P-PSDB; AAW80814.
 XX
 PT Production of anti-human antigen receptors - by selecting a combination
 PT of functionally rearranged VH and VL immunoglobulin chains expressed from
 PT a recombinant vector.
 PT
 XX Claim 9; Fig 6; 84pp; English.
 XX
 CC This is the nucleotide sequence of the human kappa 8 light chain variable
 CC region, used in the method of the invention, for providing receptors that
 CC can be used for targeting antigens in humans without being immunogenic
 CC themselves. Such receptors can be used for treating diseases such as
 CC tumours or auto-immune diseases, graft rejection after transplantation,
 CC infectious diseases by targeting cellular receptors as well as allergic,
 CC inflammatory, endocrine and degenerative diseases by targeting key
 CC molecules involved in the pathological process

XX Sequence 321 BP; 81 A; 91 C; 75 G; 74 T; 0 U; 0 Other;
SQ
Query Match 81.1%; Score 260.2; DB 2; Length 321;
Best Local Similarity 88.2%; Pred. No. 7.5e-74;
Matches 283; Conservative 0; Mismatches 38; Indels 0; Gaps 0;
1 GAGCTCCAGATGACCAAGTCTCCATCCCTGCTGTGATGAGACAGAGTCACC 60
Db 1 GAGCTCCAGATGACCAAGTCTCCATCCCTGCTGTGATGAGACAGAGTCACC 60
61 ATCACTTGGCCGGGCAAGTCAAGAGCAATTAGACAGCTATTAAATGGTATCAGAGAAACCA 120
Db 61 ATCACTTGGCCGGGCAAGTCAAGAGCAATTAGACAGCTATTAAATGGTATCAGAGAAACCA 120
121 GAGACAGCTCTTAAGTGTCTATTACTGGGATCTACCCGGGATCCGGGCTCCCTGAC 180
Db 121 GAGACAGCTCTTAAGTGTCTATTACTGGGATCTACCCGGGATCCGGGCTCCCTGAC 180
121 GAGACAGCTCTTAAGTGTCTATTACTGGGATCTACCCGGGATCCGGGCTCCCTGAC 180
181 CGATTCAAGCGGAGTGAATCTGGGACAAATTACACTCTGACATGACAGCTTGACGCT 240
Db 181 CGATTCAAGCGGAGTGAATCTGGGACAAATTACACTCTGACATGACAGCTTGACGCT 240
241 GAAAGTTTGTCTACTTCTTTGTCACAGCTGACAGTTTGGCGATCACCTTGCGCCCA 300
Db 241 GAAAGTTTGTCTACTTCTTTGTCACAGCTGACAGTTTGGCGATCACCTTGCGCCCA 300
301 GGGACACGACTGACATTCAA 321
Db 301 GGGACACGACTGAGATCAAA 321
RESULT 5
AAK77237
ID AAK77237 standard; DNA; 321 BP.
XX AAK77237;
XX
XX 04-AUG-1999 (first entry)
XX
XX Human kappa 8 light chain variable region encoding DNA.
XX
XX Binding site domain; BSD; epitope; fusion protein; therapeutic; cancer;
XX
XX autoimmune disease; scFv-antibody; single-chain Fv; ss.
XX
XX Homo sapiens.
XX
XX WO925818-A1.
XX
XX PD 27-MAY-1999.
XX
XX PF 16-NOV-1998; 98WO-EP007313.
XX
XX PR 17-NOV-1997; 97EP-00120096.
XX
XX PA (KUFE/) KUFE P.
XX
XX PI Kufer P, Raum T, Borschert K, Zetl F, Lutterbuese R;
XX
XX WPI, 1999-338004/28.
XX
XX DR P-PSDB; AAY17955.
XX
XX PT Phase display system for identification of binding site domains retaining
XX
XX capacity to bind an epitope.
XX
XX PS Disclosure; Fig 3.2; 152pp; English.
XX
XX The invention relates to a method of identifying binding site domains
XX (BSD) that retain the capacity of binding to a predetermined epitope when
XX positioned C-terminal of at least one further domain in a recombinant bi-
XX or multivalent polypeptide. The method comprises (a) testing a panel of
XX BSD displayed on the surface of a biological display system as part of a
XX fusion protein for binding to a predetermined epitope, where the fusion

CC protein comprises an additional domain positioned N-terminal of the BSD
CC and an amino acid sequence that mediates anchoring of the fusion protein
CC to the surface of the display system; and (b) identifying a BSD that
CC binds to the predetermined epitope. The method is useful to identify bi-
CC or multivalent polypeptides that comprise antibody binding sites capable
CC of efficiently binding to the corresponding antigen. The polypeptides or
CC antibodies identified by the method are useful therapeutically and
CC diagnostically, for e.g. cancer and autoimmune diseases. ScFv-antibody
CC fragments that bind independently of their position within bifunctional
CC single-chain fusion proteins can be isolated from combinatorial antibody
CC libraries using the new in vitro method
XX
XX Sequence 321 BP; 81 A; 91 C; 75 G; 74 T; 0 U; 0 Other;
SQ
Query Match 81.1%; Score 260.2; DB 2; Length 321;
Best Local Similarity 88.2%; Pred. No. 7.5e-74;
Matches 283; Conservative 0; Mismatches 38; Indels 0; Gaps 0;
1 GAGCTCCAGATGACCAAGTCTCCATCCCTGCTGTGATGAGACAGAGTCACC 60
Db 1 GAGCTCCAGATGACCAAGTCTCCATCCCTGCTGTGATGAGACAGAGTCACC 60
61 ATCACTTGGCCGGGCAAGTCAAGAGCAATTAGACAGCTATTAAATGGTATCAGAGAAACCA 120
Db 61 ATCACTTGGCCGGGCAAGTCAAGAGCAATTAGACAGCTATTAAATGGTATCAGAGAAACCA 120
61 ATCACTTGGCCGGGCAAGTCAAGAGCAATTAGACAGCTATTAAATGGTATCAGAGAAACCA 120
121 GAGACAGCTCTTAAGTGTCTATTACTGGGATCTACCCGGGATCCGGGCTCCCTGAC 180
Db 121 GAGACAGCTCTTAAGTGTCTATTACTGGGATCTACCCGGGATCCGGGCTCCCTGAC 180
121 GAGACAGCTCTTAAGTGTCTATTACTGGGATCTACCCGGGATCCGGGCTCCCTGAC 180
181 CGATTCAAGCGGAGTGAATCTGGGACAAATTACACTCTGACATGACAGCTTGACGCT 240
Db 181 CGATTCAAGCGGAGTGAATCTGGGACAAATTACACTCTGACATGACAGCTTGACGCT 240
241 GAAAGTTTGTCTACTTCTTTGTCACAGCTGACAGTTTGGCGATCACCTTGCGCCCA 300
Db 241 GAAAGTTTGTCTACTTCTTTGTCACAGCTGACAGTTTGGCGATCACCTTGCGCCCA 300
301 GGGACACGACTGACATTCAA 321
Db 301 GGGACACGACTGAGATCAAA 321
RESULT 6
AD051603
ID AD051603 standard; DNA; 321 BP.
XX AD051603;
XX
XX 15-JUL-2004 (first entry)
XX
XX Human TAG-72 antibody-related KCS18 gene SeqID13.
XX
XX DE semi-human monoclonal antibody; tumour-associated glycoprotein antigen;
XX
XX KW TAG-72; human light chain; cancer; AKA; HZK; VKI;
XX
XX KW human immunoglobulin kappa light chain germline; gene; ds; human.
XX
XX OS Homo sapiens.
XX
XX
XX FH Key Location/Qualifiers
XX
XX FT 1..321
XX
XX FT /tag= a
XX
XX FT /product= "Human TAG-72 antibody-related KCS18 protein"
XX
XX FT /partial
XX
XX FT /note= "No start or stop codon"
XX
XX PN KR2003013633-A.
XX
XX PD 15-FEB-2003.
XX
XX PF 08-AUG-2001; 2001KR-00047737.
XX
XX PR 08-AUG-2001; 2001KR-00047737.

XX (KORE-) KOREA RES INST BIOSCIENCE & BIOTECHNOLOG.
 PA Hong HJ, Kim SJ;
 PI WPI; 2003-500992/47.
 DR P-PSDB; ADO51598.
 XX
 PT Semi-human monoclonal antibody binding to tumor-associated glycoprotein
 PT antigen tag-72 and human light chain comprising the same, useful for
 PT diagnosing and treating cancer.
 PS Claim 13; SEQ ID NO 18; 1bp; Korean.
 XX
 CC This invention relates to a novel semi-human monoclonal antibody binding
 CC to tumor-associated glycoprotein antigen TAG-72 and a human light chain
 CC comprising the same. The semi-human monoclonal antibody has a human light
 CC chain of which amino acid sequence is completely derived from the human,
 CC therefore it is useful for the diagnosis and treatment of cancer. The
 CC semi-human monoclonal antibody specifically binds to TAG-72 antigen of
 CC which the light chain of human antibody AKA/HZK is substituted with the
 CC light chain of a human derived antibody. The light chain of the human
 CC derived antibody is preferably composed of amino acid sequence derived
 CC from the V λ 1 family of the human immunoglobulin kappa light chain
 CC germline. The present sequence is that of a gene which encodes a human
 CC KCS protein which is related to the novel semi-human TAG-72 antibody of
 CC the invention.
 XX
 SQ Sequence 321 BP; 87 A; 86 C; 73 G; 75 T; 0 U; 0 Other;
 XX
 Query Match 77.6%; Score 249; DB 11; Length 321;
 Best Local Similarity 86.0%; Pred. No. 3.2e-70;
 Matches 276; Conservative 0; Mismatches 45; Indels 0; Gaps 0;
 QY 1 GAGCTCCAGATGACCCAGTCTCCATCTCTGTCATCTGTAGAGACAGAGTACC 60
 DB 1 GAGCTCCAGATGACCCAGTCTCCATCTCTGTCATCTGTAGAGACAGAGTACC 60
 QY 61 ATCACTTCCGCGGCAAGTCAAGCATTTAGCATTTAAATTTGGATACAGAAACCA 120
 DB 61 ATCACTTCCGCGGCAAGTCAAGCATTTAGCATTTAAATTTGGATACAGAAACCA 120
 QY 121 GAGACGCTCTTAAGCTGCTCATTTTACTGGGATCACTACCCGGGAATCCGGGGTCCCTGAC 180
 DB 121 GGGAAAGCCCCCTAAGTCTGATCTATAAGGATCTAGTAAAGTGGGTCCCATCA 180
 QY 181 CGATTCAGCGGAGTGAATCTGGGACAAATTACACTCTCAGATCAGACGCTGACGCT 240
 DB 181 AGGTTCAAGCGGAGTGAATCTGGGACAAATTACACTCTCAGATCAGACGCTGACGCT 240
 QY 241 GAAAGATTTGGTACTTACTTTGTCAACAGTCTGACAGATTGGCCATCCTTGGCCAA 300
 DB 241 GATGATTTTGGTACTTACTTATTAACAAGACTTACATGCCCCCATCACTTCCGCCAA 300
 QY 301 GGGACGACGACTGGACATTCAA 321
 DB 301 GGGACGACGACTGGAGATTAAA 321
 XX
 RESULT 7
 ID AAL52122 standard; DNA; 324 BP.
 XX AAL52122;
 XX
 DT 29-MAY-2003 (first entry)
 XX
 DE Human anti-blood coagulation factor VIII antibody-related gene #4.
 XX
 KW Human; gene; db; anti-blood coagulation factor VIII antibody;
 KW FVIII antibody; anti-thrombotic; thrombosis; activated FVIII.
 XX
 OS Homo sapiens.

XX Key Location/Qualifiers
 FH 1..324
 FT CDS
 FT /*tag= a
 FT /partial
 FT /product= "Human VIII antibody-related protein #4"
 FT /note= "No start or stop codon is given"
 XX
 PN WO2002101040-A1.
 XX
 PD 19-DEC-2002.
 PD
 PF 11-JUN-2002; 2002WO-JP005783.
 PF
 PR 12-JUN-2001; 2001JP-00177640.
 PR
 XX (KAGA) CHERO-SERO-THERAPEUTIC RES INST.
 XX
 PA Nakashima T, Yuguuchi M;
 PI WPI; 2003-148804/14.
 DR P-PSDB; AAO16706.
 DR
 XX Human-type anti-blood coagulation factor VIII antibody, applicable in
 XX antithrombotics for prevention or treatment of thrombosis, in diagnosis
 XX of activated FVIII, and for maintaining low coagulation state.
 PT
 PS Disclosure; Page 28; 39pp; Japanese.
 XX
 CC The invention comprises the amino acid and coding sequence of a human
 CC anti-blood coagulation factor VIII (FVIII) antibody, which has an
 CC inhibitory activity on the coagulation activity of human FVIII. The
 CC antibody is applicable in anti-thrombotics for prevention or treatment of
 CC thrombosis, and in the diagnosis of activated FVIII. The present DNA
 CC sequence encodes a human FVIII antibody-related protein
 XX
 SQ Sequence 324 BP; 87 A; 88 C; 73 G; 76 T; 0 U; 0 Other;
 XX
 Query Match 76.6%; Score 245.8; DB 10; Length 324;
 Best Local Similarity 85.4%; Pred. No. 3.5e-69;
 Matches 274; Conservative 0; Mismatches 47; Indels 0; Gaps 0;
 QY 1 GAGCTCCAGATGACCCAGTCTCCATCTCTGTCATCTGTAGAGACAGAGTACC 60
 DB 1 GAGCTCCAGATGACCCAGTCTCCATCTCTGTCATCTGTAGAGACAGAGTACC 60
 QY 61 ATCACTTCCGCGGCAAGTCAAGCATTTAGCATTTAAATTTGGTATCAGAGAAACCA 120
 DB 61 ATCACTTCCGCGGCAAGTCAAGCATTTAGCATTTAAATTTGGTATCAGAGAAACCA 120
 QY 121 GAGACGCTCTTAAGCTGCTCATTTTACTGGGATCACTACCCGGGAATCCGGGGTCCCTGAC 180
 DB 121 GGGAAAGCCCCCTAAGTCTGATCTATCTCATCTCAAGTTGCAAGGTTGGGTCCCATCA 180
 QY 181 CGATTCAGCGGAGTGAATCTGGGACAAATTACACTCTCAGATCAGACGCTGACGCT 240
 DB 181 AGGTTCAAGCGGAGTGAATCTGGGACAAATTACACTCTCAGATCAGACGCTGACGCT 240
 QY 241 GAAAGATTTGGTACTTACTTTGTCAACAGTCTGACAGATTGGCCATCCTTGGCCAA 300
 DB 241 GAAAGATTTGGCAACTTACTTACTGTCACACAGATTACAGATACCCGATCACCCTGGCCAA 300
 QY 301 GGGACGACGACTGGACATTCAA 321
 DB 301 GGGACGACGACTGGAGATTAAA 321
 XX
 RESULT 8
 ID AAH47727 standard; DNA; 342 BP.
 XX AAH47727;
 XX

DT 30-NOV-2001 (first entry)
XX Nucleotide sequence of seq Id No. 70.
DE
XX Gene library; immunoglobulin; antibody library; human; ds.
XX
OS Homo sapiens.
XX
PN WO200162907-A1.
XX
PD 30-AUG-2001.
XX
PF 22-FEB-2001; 2001WO-JP001298.
XX
PR 22-FEB-2000; 2000JP-00050543.
XX
PA (MED1-) MEDICAL & BIOLOGICAL LAB CO LTD.
XX
PI Kurosawa Y, Akahori Y, Iba Y, Morino K, Shinohara M, Takahashi M;
PI Okuno Y, Shiraki K;
XX
DR WPI; 2001-565420/63.
XX P-PSDB; AAG65563.
XX
PT Producing gene libraries and antibody libraries, involves selecting a
PT light chain that binds to a heavy chain product to produce a functional
PT formation, and producing a gene library of the light chain variable
PT regions.
XX
PS Examples; p 146-147; 181pp; Japanese.
XX
CC The invention relates to producing gene libraries, comprising
CC immunoglobulin light and heavy variable region. The method involves
CC selecting light chain that binds with the heavy chain product to produce
CC a functional conformation, producing a gene library comprising a
CC collection of these light chain variable genes, and combining with gene
CC library of heavy chain variable genes. The method is used for production
CC of gene and antibody libraries
XX
SQ Sequence 342 BP; 91 A; 93 C; 78 G; 80 T; 0 U; 0 Other;

Query Match 76.1%; Score 244.2; DB 4; Length 342;
Best Local Similarity 85.0%; Pred. No. 1.2e-68;
Matches 273; Conservative 0; Mismatches 48; Indels 0; Gaps 0;
QY 1 GAGCTCCAGATGACCCAGTCTCCATCTCCCTGTCTGATCTGTAGAGACAGAGTACC 60
DB 1 GACATCGTATGACCCAGTCTCCATCTCCCTGTCTGATCTGTAGAGACAGAGTACC 60
QY 61 ATCACTTGGCCGGGCAAGTCAAGACATTAGCAGCTATTAAATTGGTATCAGAGAAACCA 120
DB 61 ATCACTTGGCCGGGCAAGTCAAGACATTAGCAGCTATTAAATTGGTATCAGAGAAACCA 120
QY 121 GGACAGCTCTTAAGTCTGCTATTTACTGGGCATCTACCCGGGAATCCGGGGTCCCTGAC 180
DB 121 GGGAAGAGCCCTTAAGTCTGCTATTTACTGGGCATCTACCCGGGAATCCGGGGTCCCTGAC 180
QY 121 GGGAAGAGCCCTTAAGTCTGCTATTTACTGGGCATCTACCCGGGAATCCGGGGTCCCTGAC 180
DB 121 GGGAAGAGCCCTTAAGTCTGCTATTTACTGGGCATCTACCCGGGAATCCGGGGTCCCTGAC 180
QY 181 CGATTGAGGGGAGTGAATCTGGGACAATTACACTCTCACCATGAGAGCTTGAGCCT 240
DB 181 AGTTTCAGTGGGAGTGAATCTGGGACAATTACACTCTCACCATGAGAGCTTGAGCCT 240
QY 241 GAAGATTTTGTACTTACTTTTGTCAACAGTCTGACAGTTTGGCCATCCTTGGCCAA 300
DB 241 GAAGATTTTGTACTTACTTGTCAACAGTCTGACAGTTTGGCCATCCTTGGCCAA 300
QY 301 GGGACACGACTGACATTCAA 321
DB 301 GGGACACGACTGAGATTAAA 321

RESULT 9
AAH47731
ID AAH47731 standard; DNA; 321 BP.

XX AC AAH47731;
XX 30-NOV-2001 (first entry)
XX Nucleotide sequence of seq Id No. 74.
DE
XX Gene library; immunoglobulin; antibody library; human; ds.
XX
OS Homo sapiens.
XX
PN WO200162907-A1.
XX
PD 30-AUG-2001.
XX
PF 22-FEB-2001; 2001WO-JP001298.
XX
PR 22-FEB-2000; 2000JP-00050543.
XX
PA (MED1-) MEDICAL & BIOLOGICAL LAB CO LTD.
XX
PI Kurosawa Y, Akahori Y, Iba Y, Morino K, Shinohara M, Takahashi M;
PI Okuno Y, Shiraki K;
XX
DR WPI; 2001-565420/63.
XX P-PSDB; AAG65567.
XX
PT Producing gene libraries and antibody libraries, involves selecting a
PT light chain that binds to a heavy chain product to produce a functional
PT formation, and producing a gene library of the light chain variable
PT regions.
XX
PS Examples; p 149; 181pp; Japanese.
XX
CC The invention relates to producing gene libraries, comprising
CC immunoglobulin light and heavy variable region. The method involves
CC selecting light chain that binds with the heavy chain product to produce
CC a functional conformation, producing a gene library comprising a
CC collection of these light chain variable genes, and combining with gene
CC library of heavy chain variable genes. The method is used for production
CC of gene and antibody libraries
XX
SQ Sequence 321 BP; 87 A; 87 C; 72 G; 75 T; 0 U; 0 Other;

Query Match 75.6%; Score 242.6; DB 4; Length 321;
Best Local Similarity 84.7%; Pred. No. 3.8e-68;
Matches 272; Conservative 0; Mismatches 49; Indels 0; Gaps 0;
QY 1 GAGCTCCAGATGACCCAGTCTCCATCTCCCTGTCTGATCTGTAGAGACAGAGTACC 60
DB 1 GACATCGTATGACCCAGTCTCCATCTCCCTGTCTGATCTGTAGAGACAGAGTACC 60
QY 61 ATCACTTGGCCGGGCAAGTCAAGACATTAGCAGCTATTAAATTGGTATCAGAGAAACCA 120
DB 61 ATCACTTGGCCGGGCAAGTCAAGACATTAGCAGCTATTAAATTGGTATCAGAGAAACCA 120
QY 121 GGACAGCTCTTAAGTCTGCTATTTACTGGGCATCTACCCGGGAATCCGGGGTCCCTGAC 180
DB 121 GGGAAGAGCCCTTAAGTCTGCTATTTACTGGGCATCTACCCGGGAATCCGGGGTCCCTGAC 180
QY 121 GGGAAGAGCCCTTAAGTCTGCTATTTACTGGGCATCTACCCGGGAATCCGGGGTCCCTGAC 180
DB 121 GGGAAGAGCCCTTAAGTCTGCTATTTACTGGGCATCTACCCGGGAATCCGGGGTCCCTGAC 180
QY 181 CGATTGAGGGGAGTGAATCTGGGACAATTACACTCTCACCATGAGAGCTTGAGCCT 240
DB 181 AGTTTCAGTGGGAGTGAATCTGGGACAATTACACTCTCACCATGAGAGCTTGAGCCT 240
QY 241 GAAGATTTTGTACTTACTTTTGTCAACAGTCTGACAGTTTGGCCATCCTTGGCCAA 300
DB 241 GAAGATTTTGTACTTACTTGTCAACAGTCTGACAGTTTGGCCATCCTTGGCCAA 300
QY 301 GGGACACGACTGACATTCAA 321
DB 301 GGGACACGACTGAGATTAAA 321

XX Huang H, Holmes S, Mason S;
 XX
 XX MPI; 2004-411694/38.
 DR P-PSDB; ADO36498.
 XX
 PT New human monoclonal antibody to heparanase, for use in treating or
 PT preventing cancer, autoimmune disease, arthritis, asthma, lupus
 PT erythematous, allograft rejection, atherosclerosis, and Alzheimer's
 PT disease.
 XX
 PS Claim 8; SEQ ID NO 11; 108bp; English.
 XX
 CC The present invention describes an isolated human monoclonal antibody
 CC which binds to and inhibits activity of human heparanase. Human anti-
 CC heparanase antibodies of the present invention have cytosolatic,
 CC immunosuppressive, antitachytic, antiaesthetic, antiinflammatory,
 CC dermatological, antidiabetic, neuroprotective and nociceptive
 CC activities, and can be used as heparanase antagonists. The antibody,
 CC methods and compositions of the present invention are useful in treating
 CC or preventing cancer or tumors, e.g. melanoma, lymphoma, prostate
 CC carcinoma, pancreatic carcinoma, bladder carcinoma, fibrosarcoma,
 CC rhabdomyosarcoma, mastocytoma, mammary adenocarcinoma, leukemia or a
 CC rheumatoid fibroblast, autoimmune disease, arthritis, asthma, lupus
 CC erythematous, allograft rejection, vascular restenosis, atherosclerosis,
 CC and Alzheimer's disease. The present sequence encodes a human anti-
 CC heparanase 1382 VP amino acid sequence, which is used in the
 CC exemplification of the present invention.
 XX
 SQ Sequence 321 BP; 81 A; 87 C; 76 G; 77 T; 0 U; 0 Other;
 XX
 Query Match 74.8%; Score 240.2; DB 12; Length 321;
 Best Local Similarity 84.9%; Pred. No. 2.3e-67;
 Matches 269; Conservative 0; Mismatches 48; Indels 0; Gaps 0;
 QY 5 TCCAGATGACCGAGTCCATCTCCCTGTGTCATCTGTAGAGACAGAGTCCACATCA 64
 DB 5 TCCAGATGACCGAGTCCATCTCCCTGTGTCATCTGTAGAGACAGAGTCCACATCA 64
 QY 65 CTTCGGCGGCAAGTCAGAGCATTTAGAGCTATTAAATTGGTATCGAGAAACCAAGAC 124
 DB 65 CTTCGGCGGCAAGTCAGAGCATTTAGAGCTATTAAATTGGTATCGAGAAACCAAGAC 124
 QY 125 AGCCTCTAAGCTGCTATTACTGTGGCATCTACCGGGAATCCGGGGTCCCTGACCGAT 184
 DB 125 AGCCTCTAAGCTGCTATTACTGTGGCATCTACCGGGAATCCGGGGTCCCTGACCGAT 184
 QY 185 TCAGCGGCGAGTGAATCTGGGACAAATTATGACTCTCAGCATCAGAGCCTGACCTGAAG 244
 DB 185 TCAGCGGCGAGTGAATCTGGGACAAATTATGACTCTCAGCATCAGAGCCTGACCTGAAG 244
 QY 245 ATTTTGCTACTTACTTTTGTCAACAGTGTGACAGTTTGCCGATCACCTTGGCCCAAGGGA 304
 DB 245 ATTTTGCTACTTACTTTTGTCAACAGTGTGACAGTTTGCCGATCACCTTGGCCCAAGGGA 304
 QY 305 CACGACTGAGCATTTCAA 321
 DB 305 CACGACTGAGCATTTCAA 321
 RESULT 14
 ADD89879
 ID ADD89879 standard; cDNA; 327 BP.
 XX
 AC ADD89879;
 XX
 DT 29-JAN-2004 (first entry)
 XX
 DE Human anti-TNF antibody 9C1A light chain variable region coding sequence.
 XX Human; Tumour necrosis factor; TNF; antibody; cytosolatic; anabolic;
 KW eating-disorders-gen; immunomodulator; antimicrobial; cardiovascular-gen;
 KW neuroprotective; gene; 88.

XX Homo sapiens.
 OS
 XX Key Location/Qualifiers
 XX CDS 1..327
 XX FT /tag=a
 XX FT /partial
 XX FT /product="9C1A light chain variable region"
 XX FT /note="No start or stop codon"
 XX
 PN WO2003083061-A2.
 XX
 PD 09-OCT-2003.
 XX
 PF 24-MAR-2003; 2003WO-US009072.
 XX
 PR 26-MAR-2002; 2002US-0367903P.
 XX
 PA (CENZ) CENTOCOR INC.
 XX
 PI Giles-Komar J, Scallon BJ, Carton JM;
 XX
 DR MPI; 2003-804040/75.
 DR P-PSDB; ADD89870.
 XX
 PT New isolated mammalian anti-tumor necrosis factor (TNF) antibody, useful
 PT for diagnosing or treating an anti-TNF related condition, e.g. cancer,
 PT anorexia, cachexia, or bacterial infection.
 XX
 PS Example 4; Fig 3A; 87bp; English.
 XX
 CC The present sequence is the coding sequence of the light chain variable
 CC region of human anti-tumour necrosis factor (TNF) monoclonal antibody
 CC 9C1A. This human TNF reactive IgG monoclonal antibody was generated by
 CC cloning variable and constant region DNA in vector pC4 and expression in
 CC CHO cells. The invention provides isolated human, primate, rodent,
 CC mammalian, chimeric, humanized and/or CDR-grafted anti-TNF antibodies,
 CC immunoglobulins, their cleavage products, other specified portions and
 CC variants, as well as anti-TNF antibody compositions, nucleic acids
 CC encoding these, vectors, host cells, methods for producing the antibodies
 CC using a host cell, transgenic animal or transgenic plant or plant cell,
 CC and therapeutic compositions, methods and devices. The antibody, nucleic
 CC acid, protein, composition and methods are useful for diagnosing or
 CC treating an anti-TNF related condition, e.g. cancer, anorexia, cachexia,
 CC or an immune, cardiovascular, infectious, and/or neurological disease.
 XX
 SQ Sequence 327 BP; 84 A; 89 C; 76 G; 78 T; 0 U; 0 Other;
 XX
 Query Match 74.3%; Score 238.6; DB 10; Length 327;
 Best Local Similarity 84.5%; Pred. No. 7.5e-67;
 Matches 268; Conservative 0; Mismatches 49; Indels 0; Gaps 0;
 QY 5 TCCAGATGACCGAGTCCATCTCCCTGTGTCATCTGTAGAGACAGAGTCCACATCA 64
 DB 5 TCCAGATGACCGAGTCCATCTCCCTGTGTCATCTGTAGAGACAGAGTCCACATCA 64
 QY 65 CTTCGGCGGCAAGTCAGAGCATTTAGAGCTATTAAATTGGTATCGAGAAACCAAGAC 124
 DB 65 CTTCGGCGGCAAGTCAGAGCATTTAGAGCTATTAAATTGGTATCGAGAAACCAAGAC 124
 QY 125 AGCCTCTAAGCTGCTATTACTGTGGCATCTACCGGGAATCCGGGGTCCCTGACCGAT 184
 DB 125 AGCCTCTAAGCTGCTATTACTGTGGCATCTACCGGGAATCCGGGGTCCCTGACCGAT 184
 QY 185 TCAGCGGCGAGTGAATCTGGGACAAATTATGACTCTCAGCATCAGAGCCTGACCTGAAG 244
 DB 185 TCAGCGGCGAGTGAATCTGGGACAAATTATGACTCTCAGCATCAGAGCCTGACCTGAAG 244
 QY 245 ATTTTGCTACTTACTTTTGTCAACAGTGTGACAGTTTGCCGATCACCTTGGCCCAAGGGA 304
 DB 245 ATTTTGCTACTTACTTTTGTCAACAGTGTGACAGTTTGCCGATCACCTTGGCCCAAGGGA 304
 QY 305 CACGACTGAGCATTTCAA 321
 DB 305 CACGACTGAGCATTTCAA 321

Db 305 CACGACTGGAGATTAA 321

RESULT 15

AD564656
ID AD564656 strand; DNA; 327 BP.

AC AD564656;

DT 16-DEC-2004 (first entry)

DE Human 9C11C light chain protein encoding DNA.

XX Tumour necrosis factor; TNF; immunotherapy; TNF related diseases;
XX obesity; immune related disease; rheumatoid arthritis;
XX cardiovascular disease; stroke; malignant disease; leukaemia;
XX neurological disease; multiple sclerosis; infection; hepatitis;
XX anorectic; antiarthritic; cerebroprotective; vasotropic; cytostatic;
XX neuroprotective; antibacterial; antiinflammatory; hepatotropic; virucide;
XX human; 9C11C; light chain; gene; ds.

OS Homo sapiens.

XX Key Location/Qualifiers

FH 10..327

FT CDS /*tag= a

FT /partial

FT /note= "No start and stop codon"

FT /product= "9C11C light chain protein"

XX US2004185047-A1.

XX 23-SEP-2004.

XX 21-MAR-2003; 2003US-00394471.

XX 21-MAR-2003; 2003US-00394471.

XX (GILES/) GILES-KOMAR J.

XX (SCAL/) SCALON B J.

XX (CART/) CARTON J M.

XX Giles-Komar J, Scallon BJ, Carton JM;

XX MPI: 2004-676151/66.

XX P-PSDB; AD564657.

XX Novel isolated mammalian anti-tumor necrosis factor (TNF) alpha antibody
XX capable of inhibiting binding of TNF alpha to TNF receptor, useful for
XX treating TNF-related diseases such as obesity or rheumatoid arthritis.

XX Example 4; Fig 3; 45pp; English.

XX The present invention relates to a mammalian anti-tumour necrosis factor
XX (TNF) antibody capable of inhibiting binding of TNF alpha to TNF
XX receptor. The invention is useful for diagnosing or treating an anti-TNF
XX related condition in a cell, tissue, organ or animal and in
XX immunotherapy. The invention is also useful for treating TNF related
XX diseases chosen from obesity, immune related disease such as rheumatoid
XX arthritis, cardiovascular disease such as stroke, malignant disease such
XX as leukemia, neurological disease such as multiple sclerosis and
XX bacterial or viral infections such as hepatitis. The present sequence is
XX the human 9C11C light chain protein (variable region and J-region)
XX encoding DNA. This sequence is used in the exemplification of the
XX invention.

XX Sequence 327 BP; 84 A; 89 C; 76 G; 78 T; 0 U; 0 Other;

XX Query Match 74.3%; Score 238.6; DB 13; Length 327;

XX Best Local Similarity 84.8%; Pred. No. 7.5e-67; Mismatches 0; Gaps 0;

QY 5 TCAGATGACCCAGTCTCCATCTCCCTGTCGATCTGTAGAGACAGACTCAACATCA 64
Db 5 TCAGATTGACCCAGTCTCCATCTCCCTGTCGATCTGTAGAGACAGACTCAACATCA 64
QY 65 CTGGCCGGGCAAGTCAGAGCATTTAGCAGCTAATTTTATGATCAGCAAAACAGGAC 124
Db 65 CTGGCCGGGCAAGTCAGAGCATTTAGCAGCTAATTTTATGATCAGCAAAACAGGAG 124
QY 125 AGCCTCCCTAAGCTGCTCATTTTACTGGGCACTACCCGGGAATCCGGGGTCCCTGACCGAT 184
Db 125 AAGCTCTTAAGCTCTGATCTATGATGCTCTCTATTGGAAAGTGGGGTCCCATCAAGGT 184
QY 185 TCAGCGGCAGTGAATCTGGGCAAAATTACACTCTCACCATCAGAGCCTGACGCTGAAG 244
Db 185 TCAGCGGCAGTGAATCTGGGCAAAATTACACTCTCACCATCAGAGCCTGACGCTGAAG 244
QY 245 ATTTTGCTACTTACTTTTGTCAACAGTCTGACAGTTTGGCGATCACTTGGCCCAAGGGA 304
Db 245 ATTTTGCAACTTACTTACTTGTCAACAGTCTGACAGTTTAAAGTTAACCGATCACTTGGCCCAAGGGA 304
QY 305 CACGACTGGAGATTCAA 321
Db 305 CACGACTGGAGATTCAA 321

Search completed: September 11, 2005, 20:26:01
Job time : 341.536 secs

GenCore version 5.1.6
Copyright (c) 1993 - 2005 Compugen Ltd.

OM nucleic - nucleic search, using sw model

Run on: September 11, 2005, 18:08:48 ; Search time 2579.67 Seconds
(without alignments)
4736.504 Million cell updates/sec

Title: US-09-403-107-147

Perfect score: 321

Sequence: 1 gagccacagatgacccagc.....ggacacagctggacattcaa 321

Scoring table: IDENTITY_NUC

Gapop 10.0 , Gapext 1.0

Searched: 34239544 seqs, 19032134700 residues

Total number of hits satisfying chosen parameters: 68479088

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Database :

EST:*
1: gb_est1:*
2: gb_est2:*
3: gb_hic:*
4: gb_est3:*
5: gb_est4:*
6: gb_est5:*
7: gb_est6:*
8: gb_gsat1:*
9: gb_gsat2:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	238.4	74.3	353	2	AM404894 UI-HF-BL0
2	237.8	74.1	794	6	CB955875 AGENCOURT
3	236.2	73.6	621	4	BM171889 ImageQC_3
4	236.2	73.6	748	6	CB957070 AGENCOURT
5	234.6	73.1	826	4	BG742662 602633264
6	233	72.6	709	6	CD690167 EST6690 h
7	233	72.6	781	6	CB985512 AGENCOURT
8	231.6	72.1	553	6	CD705041 EST121568
9	231.4	72.1	421	2	AM406227 UI-HF-BL0
10	231.4	72.1	422	2	AM407904 UI-HF-BL0
11	231.4	72.1	521	6	CD707755 EST24282
12	231.4	72.1	587	4	BG756289 602713607
13	231.4	72.1	624	6	CD690145 EST6668 h
14	230.6	71.8	570	4	BG536784 602366318
15	229.8	71.6	486	6	CD683960 EST480 hu
16	229.8	71.6	493	2	AM405753 UI-HF-BL0
17	229.8	71.6	797	6	CB987347 AGENCOURT
18	229.8	71.6	831	6	CB987031 AGENCOURT
19	228.2	71.1	525	6	CD705928 EST24455
20	228.2	71.1	708	6	CB956923 AGENCOURT
21	228.2	71.1	773	4	BM007845
22	227.4	70.8	339	1	AB107216 AB107216
23	227.4	70.8	499	6	CD685478 EST1998 h
24	226.6	70.6	487	2	AM405301 UI-HF-BL0

25	226.6	70.6	559	4	BG547768	BG547768 602575646
26	226.6	70.6	693	6	CD684441	CD684441 EST961 hu
27	226.6	70.6	754	6	CB986767	CB986767 AGENCOURT
28	226.6	70.6	785	6	CB955817	CB955817 AGENCOURT
29	226.6	70.6	864	4	BG548281	BG548281 602575248
30	226.6	70.6	923	5	BO882857	BO882857 AGENCOURT
31	226.4	70.5	740	6	CB987627	CB987627 AGENCOURT
32	226.4	70.5	756	6	CB984720	CB984720 AGENCOURT
33	225.8	70.3	608	2	AM404714	AM404714 UI-HF-BL0
34	225.8	70.3	921	4	BG341239	BG341239 602463904
35	225	70.1	391	2	AM404922	AM404922 UI-HF-BL0
36	225	70.1	460	2	AM405906	AM405906 UI-HF-BL0
37	225	70.1	510	6	CD694557	CD694557 EST11080
38	225	70.1	550	6	CD709957	CD709957 EST26484
39	225	70.1	566	2	AM406081	AM406081 UI-HF-BL0
40	225	70.1	695	6	CD683876	CD683876 EST396 hu
41	225	70.1	724	6	CB959008	CB959008 AGENCOURT
42	225	70.1	742	6	CB984723	CB984723 AGENCOURT
43	225	70.1	759	6	CB986444	CB986444 AGENCOURT
44	225	70.1	785	6	CB986976	CB986976 AGENCOURT
45	225	70.1	820	6	CB956240	CB956240 AGENCOURT

ALIGNMENTS

RESULT 1
AM404894
LOCUS
DEFINITION
UI-HF-BL0-acn-f-07-0-UI.x1 NIH MGC_37 Homo sapiens cDNA clone
IMAGE:3059844 5', mRNA sequence.
AM404894
ACCESSION
AM404894.1 GI:6923951
VERSION
KEYWORDS
SOURCE
ORGANISM
Homo sapiens (human)
Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.

REFERENCE
AUTHORS
TITLE
JOURNAL
COMMENT
NIH-MGC http://mgi.nci.nih.gov/.
1 (bases 1 to 353)
National Institutes of Health, Mammalian Gene Collection (MGC)
Unpublished (1999)
Contact: Robert Strausberg, Ph.D.
Email: cgapbs-remail.nih.gov
Eco RI site shown at the beginning of the sequence.
Tissue Procurement: Louis M. Staudt, M.D., Ph.D.
cDNA Library Preparation: M.B. Soares Lab
cDNA Library Arrayed by: M.B. Soares Lab
DNA Sequencing by: M.B. Soares Lab
Clone distribution: MGC clone distribution information can be
found through the I.M.A.G.E. Consortium/BLN at:
www.bio.lnl.gov/bbtp/image/image.html
Seq primer: M13 Forward.

FEATURES

source
1..353
Location/Qualifiers

/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="IMAGE:3059844"
/tissue_type="lymph"
/cell_type="germinal center B cells"
/cell_line="MGC85"
/lab_host="DH10B (LTI)"
/clone_id="NIH MGC_37"
/note="Vector: pRTT3-Pac; Site 1: NotI; Site 2: Eco RI;
constructed from size fractionated cytoplasmic mRNA
(1.5-2.5kb). Directionally cloned. Cells provided by Louis
M. Staudt, Ph.D. Library preparation by Maria de Fatima
Bonaldo, Ph.D. and M. Bento Soares, Ph.D."

ORIGIN

Query Match 74.3%; Score 238.4; DB 2; Length 353;
Best Local Similarity 85.3%; Pred. No. 5.8e-66;

Matches 266; Conservative 0; Mismatches 46; Indels 0; Gaps 0;

QY 1 GAGCTCCAGATGACCCAGTCTCATCTCCCTGCTGCACTGTAGGAGACAGAGTCAAC 60
|||
DB 42 GACATCCAGATGACCCAGTCTCATCTCCCTGCTGCACTGTAGGAGACAGAGTCAAC 101
|||
QY 61 ATCACTTCCGGGCAAGTCAAGACATTAAGCATTAATTAATGGATACAGAGAAACCA 120
|||
DB 102 ATCACTTCCGGGCAAGTCAAGACATTAAGCATTAATTAATGGATACAGAGAAACCA 161
|||
QY 121 GAGACGCTCTTACGTCTCATTTAAGGAGATCAACCCGGGAATCCGGGTCCTTAC 180
|||
DB 162 GGGAAAGCCCTTACGTCTCATTTAAGGAGATCAACCCGGGAATCCGGGTCCTTAC 221
|||
QY 181 CGATTGAGGGGAGATCTGGGACAAATTAACATCTGACATGACAGCCGTCAGCCT 240
|||
DB 222 AGGTTAGTGGAGATCTGGGAGATTCATCTGACATGACAGCCGTCGAACTT 281
|||
QY 241 GAAGATTTTGCTACTTACTTTTGTCAACAGTCTGACAGTTTGGCCATCACTTGGCCAA 300
|||
DB 282 GAAAGATTTTGCAACTTACTTACTGTCAACAGAGTTAAGTTCCGCAATCACTTGGCCAA 341
|||
QY 301 GGGACACGACTG 312
|||
DB 342 GGGACACGACTG 353
|||

RESULT 2
CB955875 794 bp mRNA linear EST 29-APR-2003
LOCUS CB955875
DEFINITION AGENCOURT 13779371 NIH MGC_184 Homo sapiens cDNA clone
IMAGE:30349554 5', mRNA sequence.

ACCESSION CB955875
VERSION CB955875.1 GI:30211993
KEYWORDS EST.
SOURCE Homo sapiens
ORGANISM Homo sapiens (human)

REFERENCE
TITLES NIH-MGC http://mgi.nci.nih.gov/
Mammalia; Eutheria; Primates; Carnivora; Homiidae; Homo.
1 (bases 1 to 794)
JOURNAL Unpublished (1999)
COMMENT Contact: Robert Strausberg, Ph.D.
Email: cgaabs@mai.nih.gov
Tissue Procurement: Dr. Michael Brownstein and Dr. Miklos Palkovits
CDNA Library Preparation: CLONTECH Laboratories, Inc.
CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
DNA Sequencing by: Agencourt Bioscience Corporation
Clone distribution: MGC clone distribution information can be
found through the I.M.A.G.E. Consortium/LLNL at:
http://image.llnl.gov

FEATURES
source
1. 794
Location/Qualifiers
plate: NDCM144 row: a column: 19
High quality sequence stop: 520.

1. 794
Location/Qualifiers
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="IMAGE:30349554"
/lab_host="DH10B (T1 phage-resistant)"
/clone_lib="NIH MGC 184"
/note="Organ: Pooled-glandular; Vector: pDNR-LIB; Site_1:
SfiI (ggcattatggcc); Site_2: SfiI (ggcgcctggcc);
Library is oligo-dT primed and directionally cloned. cDNA
was prepared from a glandular pool of tissues from thyroid,
parathyroid, adrenal, cortex and pineal gland. 5' and 3'
adaptors were used in cloning as follows: 5' adaptor
sequence: 5'-CAGGCGCATTAAGCC-3' and 3' adaptor sequence:
5'-ATTCTAGAGCCGAGCGCCGCAATG-dT(30)BN-3' (where B = A,
C, or G and N = A, C, G, or T). Average insert size 1.38
Kb (range 0.60-3.5 Kb). 15/15 colonies contained inserts
by PCR. This library was enriched for full-length clones

and was constructed by Clontech Laboratories (Palo Alto, CA). Note: this is a NIH_MGC Library."

ORIGIN
Query Match 74.1%; Score 237.8; DB 6; Length 794;
Best Local Similarity 83.8%; Pred. No. 1.2e-65;
Matches 269; Conservative 0; Mismatches 52; Indels 0; Gaps 0;

QY 1 GAGCTCCAGATGACCCAGTCTCATCTCCCTGCTGCACTGTAGGAGACAGAGTCAAC 60
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DB 94 GACATCCAGATGACCCAGTCTCATCTCCCTGCTGCACTGTAGGAGACAGAGTCAAC 153
|||
QY 61 ATCACTTCCGGGCAAGTCAAGACATTAAGCATTAATTAATGGATACAGAGAAACCA 120
|||
DB 154 ATCACTTCCGGGCAAGTCAAGACATTAAGCATTAATTAATGGATACAGAGAAACCA 213
|||
QY 121 GAGACGCTCTTACGTCTCATTTAAGGAGATCAACCCGGGAATCCGGGTCCTTAC 180
|||
DB 214 GGGAAAGCCCTTACGTCTCATTTAAGGAGATCAACCCGGGAATCCGGGTCCTTAC 273
|||
QY 181 CGATTGAGGGGAGATCTGGGACAAATTAACATCTGACATGACAGCCGTCAGCCT 240
|||
DB 274 AGGTTAGTGGAGATCTGGGAGATTCATCTGACATGACAGCCGTCGAACTT 333
|||
QY 241 GAAGATTTTGCTACTTACTTTTGTCAACAGTCTGACAGTTTGGCCATCACTTGGCCAA 300
|||
DB 334 GAAAGATTTTGCAACTTACTTACTGTCAACAGAGTTAAGTTCCGCAATCACTTGGCCAA 393
|||
QY 301 GGGACACGACTGAGCATTTCA 321
|||
DB 394 GGGACACGACTGAGCATTTAA 414
|||

RESULT 3
BM171889 621 bp mRNA linear EST 04-DEC-2001
LOCUS BM171889
DEFINITION imageqc 3_2001/smm27bdf41.x1 NIH_MGC_77 Homo sapiens cDNA clone
IMAGE:4690877 5', mRNA sequence.

ACCESSION BM171889
VERSION BM171889.1 GI:17311452
KEYWORDS EST.
SOURCE Homo sapiens
ORGANISM Homo sapiens (human)

REFERENCE
TITLES NIH-MGC http://mgi.nci.nih.gov/
Mammalia; Eutheria; Primates; Carnivora; Homiidae; Homo.
1 (bases 1 to 621)
JOURNAL Unpublished (2001)
COMMENT Contact: Prange CK
The I.M.A.G.E. Consortium
Lawrence Livermore National Laboratory
Livermore, CA, USA
Email: help@image.llnl.gov
This read has been verified (found to hit its original self in the
correct orientation), as part of the I.M.A.G.E. Consortium quality
control effort. High quality sequence is defined as having 100 or
more base pairs with a phred quality value of 20 or greater, where
a sliding window of 4 base pairs with a phred quality value of 15
or greater marks the beginning and end of the sequence. For
information on obtaining this clone, please contact
info@image.llnl.gov.
Plate: LDCM1509 row: c column: 6
Seq primer: -21ml3
High quality sequence stop: 621.

FEATURES
source
1. 621
Location/Qualifiers
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"

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/clone="IMAGE:4690877"
/lab host="DH10B (T1 phage-resistant)"
/clone lib="NIH_MGC 77"
/notes="Organ: Lung; Vector: pDNR-LIB (Clontech); Site_1:
5' (ggccgctcggcc); Site_2: 5' (ggccatagcc); 5' and
3' adaptors were used in cloning as follows: 5' adaptor
sequence: 5'-CACGGCATTATGACC-3' and 3' adaptor sequence:
5'-ATTCTAGAGCGCGGCGCCGACATG-dt(30)BN-3' (where B = A,
C, or G and N = A, C, G, or T). Average insert size 1.9
kb (range 0.5-4.0 kb). 12/15 colonies contained inserts
by PCR. This library was enriched for full-length clones
and was constructed by Clontech Laboratories (Palo Alto,
CA). Note: this is a NIH_MGC Library."
```

ORIGIN

```
Query Match 73.6%; Score 236.2; DB 4; Length 621;
Best Local Similarity 83.5%; Pred. No. 3, 7e-65;
Matches 268; Conservative 0; Mismatches 53; Indels 0; Gaps 0;
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QY 1 GAGCTCCAGATGACCCAGTCTCCATCTCCCTGTCGATCTGTAGAGACAGATCACC 60
    |||||||
DB 90 GATTGCGAATGACCCAGTCTCCATCTCCCTGTCGATCTGTAGAGACAGATCACC 149
    |||||||
QY 61 ATCACTTGGCCGGGCAAGTCAAGACATTAGACCTATTAAATTGGTATCAGAGAAACCA 120
    |||||||
DB 150 GCCACTTGGCCGGGCAAGTCAAGACATTAAATATTGATCAACAAACCA 209
    |||||||
QY 121 GGAACAGCTCTTAACTGCTCAATTAAGTGGCATCTACCCGGGATCCGGGTCCTGAC 180
    |||||||
DB 210 GGGCAAGCCCTTAAAGTCTGATTTATGTCATCCATTTGCAAGTGGGTCCTCATCA 269
    |||||||
QY 181 CGATTGAGGGGAGGATCTGGGACAAATTACATCTACCATCGACGACCGTCGACCT 240
    |||||||
DB 270 AGGTTAGTGGGAGGATCTGGGACAAATTACATCTACCATCGACGACCTGCAACCT 329
    |||||||
QY 241 GAAGATTTTGTACTTACTTTTGTCAACAGTCTGACAGTTTGGCCGATCCTTGGCCAA 300
    |||||||
DB 330 GAAAGATTTTGGCACTTACTACTCTCAACAGACTTTTATATCCGATCCTTGGCCAA 389
    |||||||
QY 301 GGGACACGACTGGACATTCAA 321
    |||||||
DB 390 GGGACACGACTGGACATTCAA 410
    |||||||
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```
RESULT 4
LOCUS CB957070 748 bp mRNA linear EST 29-APR-2003
DEFINITION AGENCOURT 13777897 NIH_MGC 184 Homo sapiens cDNA clone
IMAGE:30350034 5', mRNA sequence.
CB957070
VERSION CB957070.1 GI:30213187
KEYWORDS EST.
```

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SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominiidae; Homo.
1 (bases 1 to 748)
NIH-MGC http://mgi.nci.nih.gov/
National Institutes of Health, Mammalian Gene Collection (MGC)
Unpublished (1999)
Contact: Robert Strausberg, Ph.D.
Email: cgapbs-remail.nih.gov
```

```
REFERENCE Tissue Procurement: Dr. Michael Brownstein and Dr. Miklos Palkovits
AUTHORS CDNA Library Preparation: CLOUTCH Laboratories, Inc.
TITLES DNA Library Arrayed by: The I.M.A.G.E. Consortium (ILNU)
JOURNAL DNA Sequencing by: Agencourt Bioscience Corporation
COMMENT found through the I.M.A.G.E. Consortium/ILNU at:
http://image.llnl.gov
Plate: NDCM145 row: e column: 19
High quality sequence stop: 507.
Location/Qualifiers
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FEATURES

source

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/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="IMAGE:30350034"
/lab host="DH10B (T1 phage-resistant)"
/clone lib="NIH_MGC 184"
/notes="Organ: Pooled-glandular; Vector: pDNR-LIB; Site_1:
5' (ggccatagcc); Site_2: 5' (ggccgctcggcc);
Library is oligo-dT primed and directionally cloned. cDNA
was prepared from a glandular pool of tissues from thyroid,
parathyroid, adrenal, cortex and pineal gland. 5' and 3'
adaptors were used in cloning as follows: 5' adaptor
sequence: 5'-CACGGCATTATGACC-3' and 3' adaptor sequence:
5'-ATTCTAGAGCGCGGCGCCGACATG-dt(30)BN-3' (where B = A,
C, or G and N = A, C, G, or T). Average insert size 1.38
kb (range 0.60-3.5 kb). 15/15 colonies contained inserts
by PCR. This library was enriched for full-length clones
and was constructed by Clontech Laboratories (Palo Alto,
CA). Note: this is a NIH_MGC Library."
```

ORIGIN

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Query Match 73.6%; Score 236.2; DB 6; Length 748;
Best Local Similarity 83.5%; Pred. No. 4e-65;
Matches 268; Conservative 0; Mismatches 53; Indels 0; Gaps 0;
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QY 1 GAGCTCCAGATGACCCAGTCTCCATCTCCCTGTCGATCTGTAGAGACAGATCACC 60
    |||||||
DB 89 GATTGCGAATGACCCAGTCTCCATCTCCCTGTCGATCTGTAGAGACAGATCACC 148
    |||||||
QY 61 ATCACTTGGCCGGGCAAGTCAAGACATTAGACCTATTAAATTGGTATCAGAGAAACCA 120
    |||||||
DB 149 ATCACTTGGCCGGGCAAGTCAAGACATTATTAATTGGTATCAGAGAAACCA 208
    |||||||
QY 121 GGAACAGCTCTTAACTGCTCAATTAAGTGGCATCTACCCGGGATCCGGGTCCTGAC 180
    |||||||
DB 209 GGGAAACCCCTTAAAGTCTGATTTATGTCATCCGTTTCAAAAGTGGGTCCTCATCA 268
    |||||||
QY 181 CGATTGAGGGGAGGATCTGGGACAAATTACATCTACCATCGACGACCTGACAGCT 240
    |||||||
DB 269 AGTTCAGTGGGAGGATCTGGGACAAATTACATCTACCATCGACGACCTGCAACCT 328
    |||||||
QY 241 GAAGATTTTGTACTTACTTTTGTCAACAGTCTGACAGTTTGGCCGATCCTTGGCCAA 300
    |||||||
DB 329 GATGATTTTGGCACTTACTTCTGTCAACAGATTACATATCCCGATCCTTGGCCAA 388
    |||||||
QY 301 GGGACACGACTGGACATTCAA 321
    |||||||
DB 389 GGGACACGACTGGACATTCAA 409
    |||||||
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RESULT 5
LOCUS BG742662 826 bp mRNA linear EST 15-MAY-2001
DEFINITION 602633264F1 NCI_CGAP_Skn3 Homo sapiens cDNA clone IMAGE:4787826 5',
mRNA sequence.
BG742662
VERSION BG742662.1 GI:14053315
KEYWORDS EST.
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SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominiidae; Homo.
1 (bases 1 to 826)
NIH-MGC http://mgi.nci.nih.gov/
National Institutes of Health, Mammalian Gene Collection (MGC)
Unpublished (1999)
Contact: Robert Strausberg, Ph.D.
Email: cgapbs-remail.nih.gov
```

```
REFERENCE Tissue Procurement: James Cleaver, M.D.
AUTHORS CDNA Library Preparation: Life Technologies, Inc.
TITLES CDNA Library Arrayed by: The I.M.A.G.E. Consortium (ILNU) DNA
JOURNAL Sequencing by: Incyte Genomics, Inc.
COMMENT Clone distribution: MGC clone distribution information can be
```

found through the I.M.A.G.E. Consortium/LLNL at:
http://image.llnl.gov
Plate: L1AM10634 row: 0 Column: 15
High quality sequence stop: 824.
Location/Qualifiers

FEATURES

source

1..826

/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="IMAGE:4778726"
/lab_host="DH10B (T1 phage-resistant)"
/clone_lib="NCI CGAP SKn3"
/note="Organ: skin; Vector: pCMV-Sport6; Site 1: NCI;
Site 2: Salt; Cloned unidirectionally. Primer: Oligo dT.
Average insert size 1.5kb. Library constructed by Life
Technologies. Note: this is a NCI CGAP Library."

ORIGIN

Query Match

Best Local Similarity 73.1%; Score 234.6; DB 4; Length 826;

Matches 267; Conservative 0; Mismatches 54; Indels 0; Gaps 0;

```
QY 1 GAGCTCCAGATGACCCAGTCTCCATCTCTCTGTGTCATCTGTAGAGACAGATCACC 60
DB 55 GACATCCAGATGACCCAGTCTCCATCTCTCTGTGTCATCTGTAGAGACAGATCACC 114
QY 61 ATCACTTCCGGGCAAGTCAGACGATTAGACGATTATTTAATTGGATCAGAAACCA 120
DB 115 ATCACTTCCGGGCAAGTCAGACGATTAGACGATTATTTAATTGGATCAGAAACCA 174
QY 121 GGACAGCCTCTAAGCTGCTCATTTACTGGGCACTCAACCCGGGAAATCCGGGCTCCCTGAC 180
DB 175 GGGAAAGCCCTTAAGCTGCTCATTTACTGGGCACTCAACCCGGGAAATCCGGGCTCCCTGAC 234
QY 181 CGATTACAGCGGCAAGTGAATCTGGGCAATTTACACTCTTACGACGCTGACGCT 240
DB 235 AGGTTCAAGTGGAGATGATCTGGGCAAGTTCACCTCTCAGATCAGTATGTCTGCAACCT 294
QY 241 GAAGATTTTGTACTTACTTTTGTCAACAGTCTGACAGTTTCCGATCCGATCCGACCA 300
DB 295 GAAGATTTTGTACTTACTTGTCTTCAACAGGTTTACAGTCAAGCCGATTTCTTCCGCCAA 354
QY 301 GGGACACGACTGGACATTTCA 321
DB 355 GGGACACGACTGGACATTTAA 375
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RESULT 6
CD690167 709 bp mRNA linear EST 25-JUN-2003
LOCUS EST690167 human nasopharynx Homo sapiens cDNA, mRNA sequence.
DEFINITION CD690167
ACCESSION CD690167
VERSION CD690167.1 GI:32210659
KEYWORDS EST.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
REFERENCE 1 (bases 1 to 709)
AUTHORS Liu,X.-O., Zhou,Y., Zhang,L.-J., Xu,H., Chen,H.-K., Pan,Z.-G. and
Zeng,Y.-X.
TITLE Transcriptional Gene Expression Profile of Human Nasopharynx
JOURNAL Unpublished (2003)
COMMENT Contact: Yixin Zeng
Cancer Center
Sun Yat-sen University
651 Dongfeng Road East, Guangzhou 510060, China
Tel: 86-1380-9770-743
Fax: 86-20-8775-4506
Email: yxzeng@zsusm.edu.cn.

FEATURES

source

1..709

/organism="Homo sapiens"

/mol_type="mRNA"
/db_xref="taxon:9606"
/issue_type="normal nasopharynx"
/clone_lib="human nasopharynx"
/note="ESTs generated from a normal nasopharynx cDNA
library from southern Chinese"

ORIGIN

Query Match

Best Local Similarity 72.6%; Score 233; DB 6; Length 709;

Matches 266; Conservative 0; Mismatches 55; Indels 0; Gaps 0;

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QY 1 GAGCTCCAGATGACCCAGTCTCCATCTCTCTGTGTCATCTGTAGAGACAGATCACC 60
DB 123 GACATCCAGATGACCCAGTCTCCATCTCTCTGTGTCATCTGTAGAGACAGATCACC 182
QY 61 ATCACTTCCGGGCAAGTCAGACGATTAGACGATTATTTAATTGGATCAGAAACCA 120
DB 183 ATCACTTCCGGGCAAGTCAGACGATTAGACGATTATTTAATTGGATCAGAAACCA 242
QY 121 GGACAGCCTCTAAGCTGCTCATTTACTGGGCACTCAACCCGGGAAATCCGGGCTCCCTGAC 180
DB 243 GGGAAAGCCCTTAAGCTGCTCATTTACTGGGCACTCAACCCGGGAAATCCGGGCTCCCTGAC 302
QY 181 CGATTACAGCGGCAAGTGAATCTGGGCAATTTACACTCTTACGACGCTGACGCT 240
DB 303 AGGTTCAAGTGGAGATGATCTGGGCAAGTTCACCTCTCAGATCAGTATGTCTGCAACCT 362
QY 241 GAAGATTTTGTACTTACTTTTGTCAACAGTCTGACAGTTTCCGATCCGATCCGACCA 300
DB 363 GAAGATTTTGTACTTACTTTTGTCAACAGTCTGACAGTTTCCGATCCGATCCGACCA 422
QY 301 GGGACACGACTGGACATTTCA 321
DB 423 GGGACACGACTGGACATTTAA 443
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RESULT 7
CB985512 781 bp mRNA linear EST 01-MAY-2003
LOCUS AGENCOURT.13672145 NIH-MGC.184 Homo sapiens cDNA clone
DEFINITION IMAGE:30327573 5', mRNA sequence.
ACCESSION CB985512
VERSION CB985512.1 GI:30280036
KEYWORDS EST.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
REFERENCE 1 (bases 1 to 781)
AUTHORS NIH-MGC http://mgi.nci.nih.gov/.
TITLE National Institutes of Health, Mammalian Gene Collection (MGC)
JOURNAL Unpublished (1999)
COMMENT Contact: Robert Strausberg, Ph.D.
Email: cga@bde-remail.nih.gov
Tissue Procurement: Dr. Michael Brownstein and Dr. Miklos Palokvics
cDNA Library Preparation: CLOUTCH Laboratories, Inc.
CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
DNA Sequencing by: Agencourt Bioscience Corporation
Clone distribution: MGC clone distribution information can be
found through the I.M.A.G.E. Consortium/LLNL at:
http://image.llnl.gov
Plate: NDCM136 row: m column: 22
High quality sequence stop: 390.
Location/Qualifiers

FEATURES

source

1..781

/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="IMAGE:30327573"
/lab_host="DH10B (T1 phage-resistant)"
/clone_lib="NIH-MGC.184"
/note="Organ: Pooled-Glandular; Vector: pDNR-LIB; Site_1:

ORIGIN

(1.5-2.5kb). Directionally cloned. Cells provided by Louis M. Staudt, Ph.D. Library preparation by Maria de Fatima Bonaldo, Ph.D. and M. Bento Soares, Ph.D."

Query Match

Best Local Similarity 72.1%; Score 231.4; DB 2; Length 421;
Matches 265; Conservative 0; Mismatches 56; Indels 0; Gaps 0;

QY 1 GAGCTCCAGATGACCCAGTCTCCATCTCCCTGTCGATCTGTAGAGACAGAGTACC 60
DB 10 GACATCCAGATGACCCAGTCTCCATCTCCCTGTCGATCTGTAGAGACAGAGTACC 69
QY 61 ATCACTTCCGCGGAGAGTACAGAGATTAAGCTATTAAATGTATCAGAGAAACA 120
DB 70 ATCACTTCCGCGGAGAGTACAGAGTCTTGGAGAGTGTATGCTGTATCAGAGAAACA 129
QY 121 GGACAGCCTCTTACGCTCTCATTTACTGAGGACATTAACCCGGGATCCGGGCTCCCTGAC 180
DB 130 GGACAGCCTCTTACGCTCTCATTTACTGAGGACATTAACCCGGGATCCGGGCTCCCTGAC 189
QY 181 CGATTACAGGAGGAGTAAATCTGGAGAAATTAACATCTCAGATCAGACGCTGACGCT 240
DB 190 AGGTTACAGGAGGAGTAAATCTGGAGAAATTAACATCTCAGATCAGACGCTGACGCT 249
QY 241 GAAAGATTTGTACTTACTTTTGTCAACAGTCTGACAGTTTGGCCGATCCTTGGCCAA 300
DB 250 GAAAGATTTGTACTTACTTATCTCAACAGGCTTAACACTTCCCGATCCTTGGCCAA 309
QY 301 GGGACACGACTGGACATTCGA 321
DB 310 GGGACACGACTGGACATTCGA 330

RESULT 10
AM407904 422 bp mRNA linear EST 16-FEB-2000
LOCUS UI-HF-BL0-add-a-01-0-UI.r2 NIH MGC_37 Homo sapiens cDNA clone
DEFINITION IMAGE:3061128 5', mRNA sequence.
ACCESSION AM407904
VERSION AM407904.1 GI:6926961
KEYWORDS EST.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominiidae; Homo.
REFERENCE 1 (bases 1 to 422)
AUTHORS NIH-MGC http://mgi.nci.nih.gov/.
TITLE National Institutes of Health, Mammalian Gene Collection (MGC)
JOURNAL Unpublished (1999)
COMMENT Contact: Robert Strausberg, Ph.D.
Email: cgaabs-rc@mail.nih.gov
Eco RI site shown at the beginning of the sequence.
Tissue Procurement: Louis M. Staudt, M.D., Ph.D.
CDNA Library Preparation: M.B. Soares Lab
CDNA Library Arrayed by: M.B. Soares Lab
DNA Sequencing by: M.B. Soares Lab
Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/BLNI at:
www-bio.lnl.gov/db/ftp/image/image.html
Seq primer: M13 Forward.

FEATURES
source

1. 422
Location/Qualifiers
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="IMAGE:3061128"
/tissue_type="lymph"
/cell_line="germinal center B cells"
/lab_host="DH10B (LTI)"
/clone_lib="NIH_MGC_37"
/note="Vector: pT73-Pac; Site_1: NotI; Site_2: Eco RI;

ORIGIN

Constructed from size fractionated cytoplasmic mRNA (1.5-2.5kb). Directionally cloned. Cells provided by Louis M. Staudt, Ph.D. Library preparation by Maria de Fatima Bonaldo, Ph.D. and M. Bento Soares, Ph.D."

Query Match 72.1%; Score 231.4; DB 2; Length 422;
Best Local Similarity 82.6%; Pred. No. 1.2e-63;
Matches 265; Conservative 0; Mismatches 56; Indels 0; Gaps 0;

QY 1 GAGCTCCAGATGACCCAGTCTCCATCTCCCTGTCGATCTGTAGAGACAGAGTACC 60
DB 23 GACATCCAGATGACCCAGTCTCCATCTCCCTGTCGATCTGTAGAGACAGAGTACC 82
QY 61 ATCACTTCCGCGGAGAGTACAGAGATTAAGCTATTAAATGTATCAGAGAAACA 120
DB 83 ATCACTTCCGCGGAGAGTACAGAGTCTTGGAGAGTGTATGCTGTATCAGAGAAACA 142
QY 121 GGACAGCCTCTTACGCTCTCATTTACTGAGGACATTAACCCGGGATCCGGGCTCCCTGAC 180
DB 143 GGAGAGCCCTTAAGCTCTGATCTGATCAGATTCAGATTGCAAAAGTGGGCTCCCATCA 202
QY 181 CGATTACAGGAGGAGTAAATCTGGAGAAATTAACATCTCAGATCAGACGCTGACGCT 240
DB 203 AGGTTACAGGAGGAGTAAATCTGGAGAAATTAACATCTCAGATCAGACGCTGACGCT 262
QY 241 GAAAGATTTGTACTTACTTTTGTCAACAGTCTGACAGTTTGGCCGATCCTTGGCCAA 300
DB 263 GAAAGATTTGTACTTACTTATCTCAACAGGCTTAACACTTCCCGATCCTTGGCCAA 322
QY 301 GGGACACGACTGGACATTCGA 321
DB 323 GGGACACGACTGGACATTCGA 343

RESULT 11
CD707755 521 bp mRNA linear EST 25-JUN-2003
LOCUS EST24282 human nasopharynx Homo sapiens cDNA, mRNA sequence.
DEFINITION CD707755
ACCESSION CD707755
VERSION CD707755.1 GI:32238385
KEYWORDS EST.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominiidae; Homo.
REFERENCE 1 (bases 1 to 521)
AUTHORS Liu,X.-Q., Zhou,Y., Zhang,L.-J., Xu,H., Chen,H.-K., Pan,Z.-G. and Zeng,Y.-X.
TITLE Transcriptional Gene Expression Profile of Human Nasopharynx
JOURNAL Unpublished (2003)
COMMENT Contact: Yixin zeng
Cancer Center
Sun Yat-sen University
51 Dongfeng Road East, Guangzhou 510060, China
Tel: 86-1380-9770-743
Fax: 86-20-8775-4506
Email: yxzeng@zsusm.edu.cn

FEATURES
source

1. 521
Location/Qualifiers
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/tissue_type="normal nasopharynx"
/clone_lib="human nasopharynx"
/note="ESTs generated from a normal nasopharynx cDNA library from southern Chinese"

ORIGIN

Query Match 72.1%; Score 231.4; DB 6; Length 521;
Best Local Similarity 82.6%; Pred. No. 1.3e-63;
Matches 265; Conservative 0; Mismatches 56; Indels 0; Gaps 0;

QY 1 GAGCTCAGATGACCCAGCTCCCTGTCATCTGTAGAGACAGAGTACC 60
|||
DB 91 GACATCCAGATGACCCAGCTCCCTGTCATCTGTAGAGACAGAGTACC 150
QY 61 ATCACTTGGCCGGAAGTCAAGCATTAGAGCATTAAATTGATCAGAGAAACA 120
151 ATCACTTGGCCGGAAGTCAAGCATTAACTAATTAAATTGATCAGAGAAACA 210
QY 121 GGAACGCTCTTAAGCTGCTCATTTACTGGGCACTACCCGGGAATCCGGGTCCTGAC 180
DB 211 GGAAGAGCCCTTAAGCTCTGATCTAGATGATCACTTTTGAACACGGGGTCTCATCA 270
QY 181 CGATTGACGGGCAAGTATCTGGACAAATTACACTCTCAGATCAGAGCTGACGCT 240
DB 271 AGGTTGAGTGGAGTGGATCTGGACAGATTTTACTTCACTCAGCAGGCTGACGCT 330
QY 241 GAAATTTTGTCTACTTACTTTGTCAACAGCTGACAGTTGGCGATCAGCTTGGGCA 300
DB 331 GAAGATATTGCAACATATTACTGCAACAGTTGATTAATCTCCGATCAGCTTGGGCA 390
QY 301 GGGACACGACTGGACATTCA 321
DB 391 GGGACACGACTGGAGATTAA 411

RESULT 12
LOCUS BG756289 587 bp mRNA linear EST 15-MAY-2001
DEFINITION 602713607F1 NIH_MGC_48 Homo sapiens cDNA clone IMAGE:4853953 5',
mRNA sequence.
ACCESSION BG756289
VERSION BG756289.1 GI:14066942
KEYWORDS EST.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
REFERENCE 1 (bases 1 to 587)
NIH-MGC http://mgc.nci.nih.gov/
National Institutes of Health, Mammalian Gene Collection (MGC)
JOURNAL Unpublished (1999)
COMMENT Contact: Robert Strausberg, Ph.D.
Email: cgaabs-remail.nih.gov
Tissue Procurement: Louis M. Staudt, M.D., Ph.D.
CDNA Library Preparation: Ling Hong/Rubin Laboratory
CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LNL)
DNA Sequencing by: Incyte Genomics, Inc.
Clone distribution: MGC clone distribution information can be
found through the I.M.A.G.E. Consortium/LNL at:
http://image.lnl.gov
Plate: LINC1700 row: n column: 02
High quality sequence stop: 586.
Location/Qualifiers
1. 587
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="IMAGE:4853953"
/tissue_type="primary B-cells from tonsils (cell line)"
/lab_host="DH10B (phage-resistant)"
/clone_lib="NIH MGC 48"
/note="Organ: B-cells; Vector: pOT87; Site: 1; XhoI;
Site: 2; EcoRI; cDNA made by oligo-dT priming.
Directionally cloned into EcoRI/XhoI sites using the
following 5' adaptor: GGACGAG(G). Size-selected >500bp
for average insert size 1.8kb. Library constructed by Ling
Hong in the laboratory of Gerald M. Rubin (university of
California, Berkeley) using ZAP-cDNA synthesis kit
(Stratagene) and Superscript II RT (Life Technologies).
Note: this is a NIH-MGC Library."

ORIGIN
Query Match 72.1%; Score 231.4; DB 4; Length 587;

Best Local Similarity 82.6%; Pred. No. 1.3e-63;
Matches 265; Conservative 0; Mismatches 56; Indels 0; Gaps 0;
QY 1 GAGCTCAGATGACCCAGCTCCCTGTCATCTGTAGAGACAGAGTACC 60
|||
DB 77 GACATCCAGATGACCCAGCTCCCTGTCATCTGTAGAGACAGAGTACC 136
QY 61 ATCACTTGGCCGGAAGTCAAGCATTAGAGCATTAAATTGATCAGAGAAACA 120
137 ATCACTTGGCCGGAAGTCAAGCATTAACTAATTAAATTGATCAGAGAAACA 196
QY 121 GGAACGCTCTTAAGCTGCTCATTTACTGGGCACTACCCGGGAATCCGGGTCCTGAC 180
DB 197 GGAAGAGCCCTTAAGCTCTGATCTAGATGATCACTTTTGAACACGGGGTCTCATCA 256
QY 181 CGATTGACGGGCAAGTATCTGGACAAATTACACTCTCAGATCAGAGCTGACGCT 240
DB 257 AGGTTGAGTGGAGTGGATCTGGGACAGATTTTACTTCACTCAGCAGGCTGACGCT 316
QY 241 GAAATTTTGTCTACTTACTTTGTCAACAGCTGACAGTTGGCGATCAGCTTGGGCA 300
DB 317 GAAGATATTGCAACATATTATTGTCAACGGCAGTAAATGCTCCGATCAGCTTGGGCA 376
QY 301 GGGACACGACTGGACATTCA 321
DB 377 GGGACACGACTGGAGATTAA 397

RESULT 13
LOCUS CD690145 624 bp mRNA linear EST 25-JUN-2003
DEFINITION EST6668 human nasopharynx Homo sapiens cDNA, mRNA sequence.
ACCESSION CD690145
VERSION CD690145.1 GI:32210615
KEYWORDS EST.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
REFERENCE 1 (bases 1 to 624)
Liu, X.-Q., Zhou, Y., Zhang, L.-J., Xu, H., Chen, H.-K., Pan, Z.-G. and
Zeng, Y.-X.
Transcriptional Gene Expression Profile of Human Nasopharynx
JOURNAL Unpublished (2003)
COMMENT Contact: Yixin Zeng
Cancer Center
Sun Yat-sen University
651 Dongfeng Road East, Guangzhou 510660, China
Tel: 86-1380-9770-743
Fax: 86-20-8775-4506
Email: yxzeng@sysu.edu.cn.
Location/Qualifiers
1. 624
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/tissue_type="normal nasopharynx"
/clone_lib="human nasopharynx"
/note="ESTs generated from a normal nasopharynx cDNA
library from southern Chinese"

ORIGIN
Query Match 72.1%; Score 231.4; DB 6; Length 624;
Best Local Similarity 82.6%; Pred. No. 1.3e-63;
Matches 265; Conservative 0; Mismatches 56; Indels 0; Gaps 0;
QY 1 GAGCTCAGATGACCCAGCTCCCTGTCATCTGTAGAGACAGAGTACC 60
|||
DB 114 GACATCCAGATGACCCAGCTCCCTGTCATCTGTAGAGACAGAGTACC 173
QY 61 ATCACTTGGCCGGAAGTCAAGCATTAGAGCATTAAATTGATCAGAGAAACA 120
174 ATCACTTGGCCGGAAGTCAAGCATTAGAGCATTAAATTGATCAGAGAAACA 233

QY 121 GGACAGCTCTTAAGCTGCTCATTTACTGGAGCATACCAGGAAATCCGGGCTCTGAC 180
DB 234 GGGAAAGCCCTTAAGCTCTGATCTATGCTGATTCAGATTCAGAGTGGAGTGGGCTCCATCA 293
QY 181 CGATTGAGCGGAGTGAATCTGGAGCAAAATTACACTTCACATCGACAGCTCGAGCCT 240
DB 294 AGATTGAGTGGAGTGGAGTCTGGGAGACAGATTTCACCTCACCATCAGCAGTCTGCAACCT 353
QY 241 GAAGATTTTGTACTTACTTTTGTCAACAGTCTGAAGATTGGCCATCACTTCGGCCAA 300
DB 354 GAAGATTTTGTCAACTTACTTACTGTCACAGAGATTACAGTCCCTTGAACCTTTGGCCAG 413
QY 301 GGGACAGACTGGACATTCAA 321
DB 414 GGGACCAAGCTGGAGATCAA 434

RESULT 14
BG536784 570 bp mRNA linear EST 03-APR-2001
LOCUS 602566318F1 NIH_MGC_77 Homo sapiens cDNA clone IMAGE:4690877 5',
DEFINITION mRNA sequence.

ACCESSION BG536784
VERSION BG536784
KEYWORDS GI:13528330
SOURCE EST.
ORGANISM Homo sapiens (human)

REFERENCE
AUTHORS Mammalia; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
TITLE NIH-MGC http://mgc.nci.nih.gov/.
JOURNAL National Institutes of Health, Mammalian Gene Collection (MGC)
COMMENT Unpublished (1999)

Contact: Robert Strausberg, Ph.D.
Email: cgabbs-remail.nih.gov
Tissue Procurement: CLONTECH Laboratories, Inc.
CDNA Library Preparation: CLONTECH Laboratories, Inc.
CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
DNA Sequencing by: Incyte Genomics, Inc.
Clone distribution: MGC clone distribution information can be
found through the I.M.A.G.E. Consortium/LLNL at:
http://image.llnl.gov
Plate: L1CML509 row: C column: 06
High quality sequence stop: 568.

FEATURES
source location/Qualifiers
1..570
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="IMAGE:4690877"
/lab_host="DH10B (T1 phage-resistant)"
/clone_lib="NIH_MGC_77"
/note="Organ: Lung; Vector: pDNR-LIB (Clontech); Site:1;
SfiI (ggcgccctcgagc); Site 2: SfiI (ggcgccatcgagc); 5' and
3' adaptor were used in cloning as follows: 5' adaptor
sequence: 5'-CAGGCGCATTAAGGCG-3' and 3' adaptor sequence:
5'-ATTCTAGAGCGCCAGGCGCGGACAGG-dt(30)BN-3' (where B = A,
C, or G and N = A, C, G, or T). Average insert size 1.9
kb (range 0.5-4.0 kb). 12/15 colonies contained inserts
by PCR. This library was enriched for full-length clones
and was constructed by Clontech Laboratories (Palo Alto,
Ca). Note: this is a NIH_MGC Library."

ORIGIN

Query Match 71.8%; Score 230.6; DB 4; Length 570;
Best Local Similarity 84.4%; Pred. No. 2.4e-63;
Matches 271; Conservative 0; Mismatches 49; Indels 1; Gaps 1;

QY 1 GAGCTCAGATGACCAAGTCTCATCTCCCTGTCGATCTGTAGAGACAGAGTCACC 60
DB 91 GACATCCAGATGACCAAGTCTCATCTCCCTGTCGATCTGTAGAGACAGAGTCACC 150

QY 61 ATCACTTCGCGGAGCAAGTCAAGACATTAGACGTAATTTAAATTGGATCAGACAAACCA 120
DB 151 GTCACTTCGCGGAGCAAGTCAAGACATTAAATTTAAATTGGATCAGACAAACCA 210
QY 121 GGCAGGCTCTTAAGTCTCATTTACTGCGGCAATCTACCCGGAAATCCGGGGTCCCTGAC 180
DB 211 GGCAGGCC-CCTAAGCTCTGATTTATGTCATTCATCTTTGGCAAAAGTGGGCTCCATCA 269
QY 181 CGATTGAGCGGAGTGAATCTGGAGCAAAATTACACTTCACATCAGACAGCTCGAGCCT 240
DB 270 AGTTTCACTGGCAGTGGATCTGGAGACAGATTTCACCTCACCATCAGAGTCTGCAACT 329
QY 241 GAAGATTTTGTACTTACTTTTGTCAACAGTCTGACAGATTGGCCGATCAGCTTCGCCAA 300
DB 330 GAAGATTTTGTCAACTTACTTACTGTCACAGACTTCATTAATCCGATCAGCTTCGCCAA 389
QY 301 GGGACAGACTGGACATTCAA 321
DB 390 GGGACAGACTGGAGATTAA 410

RESULT 15
CD683960 486 bp mRNA linear EST 25-JUN-2003
LOCUS CD683960
DEFINITION EST480 human nasopharynx Homo sapiens cDNA, mRNA sequence.

ACCESSION CD683960
VERSION CD683960.1 GI:32198500
KEYWORDS EST.
SOURCE Homo sapiens (human)

ORGANISM Homo sapiens
REFERENCE Mammalia; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
TITLE NIH-MGC http://mgc.nci.nih.gov/.
JOURNAL National Institutes of Health, Mammalian Gene Collection (MGC)
COMMENT Unpublished (2003)

Contact: Yixin Zeng
Cancer Center
Sun Yat-sen University
651 Dongfeng Road East, Guangzhou 510060, China
Tel: 86-1380-9770-743
Fax: 86-20-8775-4506
Email: yxzeng@gzsunu.edu.cn.

FEATURES
source location/Qualifiers
1..486
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/clone_lib="normal nasopharynx"
/note="ESTs generated from a normal nasopharynx cDNA
library from southern Chinese"

ORIGIN

Query Match 71.6%; Score 229.8; DB 6; Length 486;
Best Local Similarity 82.2%; Pred. No. 4e-63;
Matches 264; Conservative 0; Mismatches 57; Indels 0; Gaps 0;

QY 1 GAGCTCAGATGACCAAGTCTCATCTCCCTGTCGATCTGTAGAGACAGAGTCACC 60
DB 134 GACATCCAGATGACCAAGTCTCATCTCCCTGTCGATCTGTAGAGACAGAGTCACC 193
QY 61 ATCACTTCGCGGAGCAAGTCAAGACATTAGACGTAATTTAAATTGGATCAGACAAACCA 120
DB 194 ATCACTTCGCGGAGCAAGTCAAGATTTAGACGCTGTATGAGTATCAGACAAACCA 253
QY 121 GGCAGGCTCTTAAGTCTCATTTACTGCGGCAATCTACCCGGAAATCCGGGGTCCCTGAC 180
DB 254 GGCAGGCCCTTAAGTCTCATTTACTGCGGCAATTTAAACAAAGTGGGCTCCATCA 313
QY 181 CGATTGAGCGGAGTGAATCTGGAGCAAAATTACACTTCACATCAGACAGCTTCGAGCCT 240

Db	314	AGGTCAGCGCAGTGATCTGGGACAAATTCACCTCAGATCAGAGCTGCAACCT	373
Qy	241	GAAGATTTGCTACTTACTTTTGTCAACAGTCTGACAGTTTGGCGATCAGCTTGGGCGAA	300
Db	374	GAAGATTTGCAACTTATTTGTCAACAGGTAAACAGTTCCCGATCAGCTTGGGCGAA	433
Qy	301	GGGACAGCACTGGACATTCAA	321
Db	434	GGGACAGCACTGGAGATTAA	454

Search completed: September 11, 2005, 22:50:42
 Job time : 2584.67 secs

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Db 303 ACGACTGGAGATTAAA 318

RESULT 2

US-08-378-939-13

/ Sequence 13, Application US/08378939

/ Patent No. 5876961

/ GENERAL INFORMATION:

/ APPLICANT: CROME, JAMES SCOTT

/ APPLICANT: LEWIS, ALAN PETER

/ TITLE OF INVENTION: PRODUCTION OF ANTIBODIES

/ NUMBER OF SEQUENCES: 46

/ CORRESPONDENCE ADDRESS:

/ ADDRESSEE: ROTHWELL, FIGG, ERNST & KURZ

/ STREET: 555 THIRTEENTH ST. N.W.

/ CITY: WASHINGTON

/ STATE: D. C.

/ COUNTRY: U. S.

/ ZIP: 20004

/ COMPUTER READABLE FORM:

/ MEDIUM TYPE: Floppy disk

/ COMPUTER: IBM PC compatible

/ OPERATING SYSTEM: PC-DOS/MS-DOS

/ SOFTWARE: Patentin Release #1.0, Version #1.25

/ CURRENT APPLICATION DATA:

/ APPLICATION NUMBER: US/08/378,939

/ FILING DATE:

/ CLASSIFICATION: 435

/ PRIOR APPLICATION DATA:

/ APPLICATION NUMBER: US 07/952640

/ FILING DATE: 01-DEC-1992

/ ATTORNEY/AGENT INFORMATION:

/ NAME: ERNST, BARBARA G

/ REGISTRATION NUMBER: 30,377

/ REFERENCE/DOCKET NUMBER: 1808-118

/ TELECOMMUNICATION INFORMATION:

/ TELEPHONE: (202) 783-6040

/ TELEFAX: (202) 783-6031

/ INFORMATION FOR SEQ ID NO: 13:

/ SEQUENCE CHARACTERISTICS:

/ LENGTH: 321 base pairs

/ TYPE: nucleic acid

/ STRANDEDNESS: both

/ TOPOLOGY: linear

/ MOLECULE TYPE: cDNA

/ HYPOTHETICAL: NO

/ ANTI-SENSE: NO

/ FEATURE:

/ NAME/KEY: CDS

/ LOCATION: 1..321

/ US-08-378-939-13

Query Match 73.6%; Score 236.2; DB 2; Length 321;

Best Local Similarity 83.5%; Pred. No. 3.8e-73;

Matches 268; Conservative 0; Mismatches 53; Indels 0; Gaps 0;

QY 1 GAGCTCCAGATGACCCAGTCTGCATCTCCCTGCTGCACTGTAGAGACAGAGTCAAC 60

Db 1 GACATCCAGATGACCCAGTCTGCATCTCCCTGCTGCACTGTAGAGACAGAGTCAAC 60

QY 61 ATCACTTGGCCGGGCAAGTCAAGACATTAGACAGCTATTAAATTGGTATCAGCAAAACA 120

Db 61 ATCACTTGGCCGGGCAAGTCAAGACATTAGACAGCTATTAAATTGGTATCAGCAAAACA 120

QY 121 GGAAGAGCTCTAGAGTCTGCTATTACTGGGCACTTCAACCCGGGAATCCGGGGTCCCTGAC 180

Db 121 GGAAGAGCTCTAGAGTCTGCTATTACTGGGCACTTCAACCCGGGAATCCGGGGTCCCTGAC 180

QY 181 CGATTGAGGGGCAAGTCAATCTGGGCAAAATTACACTCTACATCAGACAGCTGAGAGCT 240

Db 181 AGGTTGAGGGGCAAGTCAATCTGGGCAAAATTACACTCTACATCAGACAGCTGAGAGCT 240

QY 241 GAAGATTTTGCTACTTACTTTTGTCAGAGTCTGACAGATTGCCGATCACTTCGGCCAA 300

Db 241 GAAGATTTTGCTACTTACTTACTTTTGTCAGAGTCTGACAGATTGCCGATCACTTCGGCCAA 300

QY 301 GGGACACGACTGGACATTCAA 321

Db 301 GGGACACGACTGGAGATTAAA 321

RESULT 3

US-09-192-854-1

/ Sequence 1, Application US/09192854

/ Patent No. 6696245

/ GENERAL INFORMATION:

/ APPLICANT: Winter, Greg

/ APPLICANT: Tomlinson, Ian

/ TITLE OF INVENTION: Methods for Selecting Functional Peptides

/ FILE REFERENCE: 3789/72916

/ CURRENT APPLICATION NUMBER: US/09/192,854

/ CURRENT FILING DATE: 1998-11-17

/ EARLIER APPLICATION NUMBER: 60/066,729

/ EARLIER FILING DATE: 1997-11-21

/ NUMBER OF SEQ ID NOS: 212

/ SOFTWARE: PatentIn Ver. 2.0

/ SEQ ID NO 1

/ LENGTH: 720

/ TYPE: DNA

/ ORGANISM: Homo sapiens

/ US-09-192-854-1

Query Match 72.1%; Score 231.4; DB 4; Length 720;
Best Local Similarity 82.6%; Pred. No. 2.9e-71;
Matches 265; Conservative 0; Mismatches 56; Indels 0; Gaps 0;

QY 1 GAGCTCCAGATGACCCAGTCTTCAATCTCCCTGCTGCACTGTAGAGACAGAGTCAAC 60

Db 397 GACATCCAGATGACCCAGTCTTCAATCTCCCTGCTGCACTGTAGAGAGACAGAGTCAAC 456

QY 61 ATCACTTGGCCGGGCAAGTCAAGACATTAGACAGCTATTAAATTGGTATCAGCAAAACA 120

Db 457 ATCACTTGGCCGGGCAAGTCAAGACATTAGACAGCTATTAAATTGGTATCAGCAAAACA 516

QY 121 GGAAGAGCTCTAGAGTCTGCTATTACTGGGCACTTCAACCCGGGAATCCGGGGTCCCTGAC 180

Db 517 GGAAGAGCTCTAGAGTCTGCTATTACTGGGCACTTCAACCCGGGAATCCGGGGTCCCTGAC 576

QY 181 CGATTGAGGGGCAAGTCAATCTGGGCAAAATTACACTCTACATCAGACAGCTGAGAGCT 240

Db 577 AGGTTGAGGGGCAAGTCAATCTGGGCAAAATTACACTCTACATCAGACAGCTGAGAGCT 636

QY 241 GAAGATTTTGCTACTTACTTTTGTCAGAGTCTGACAGATTGCCGATCACTTCGGCCAA 300

Db 637 GAAGATTTTGCTACTTACTTACTTTTGTCAGAGTCTGACAGATTGCCGATCACTTCGGCCAA 696

QY 301 GGGACACGACTGGACATTCAA 321

Db 697 GGGACACGAGTGAATCAAA 717

RESULT 4

US-09-472-087-62

/ Sequence 62, Application US/09472087

/ Patent No. 6682736

/ GENERAL INFORMATION:

/ APPLICANT: HANSON, DOUGLAS C.

/ APPLICANT: NEVER, MARK J.

/ APPLICANT: MUELLER, BILLIE H.

/ APPLICANT: HANKE, JEFFREY H.

/ APPLICANT: GILMAN, STEVEN C.

/ APPLICANT: DAVIS, C. GORFREY

/ APPLICANT: CORVALAN, JOSE R.

/ TITLE OF INVENTION: HUMAN MONOCLONAL ANTIBODIES TO CTLA-4

/ FILE REFERENCE: ABX-PF1

CURRENT APPLICATION NUMBER: US/09/472,087
CURRENT FILING DATE: 1999-12-23
PRIOR APPLICATION NUMBER: 60/113,647
PRIOR FILING DATE: 1998-12-23
NUMBER OF SEQ ID NOS: 147
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 62
LENGTH: 714
TYPE: DNA
ORGANISM: Homo sapiens
US-09-472-087-62

Query Match 71.1%; Score 228.2; DB 4; Length 714;
Best Local Similarity 81.9%; Pred. No. 3,9e-70;
Matches 253; Conservative 0; Mismatches 58; Indels 0; Gaps 0;

QY 1 GAGCTTCAGATGACCCAGTCTCCATCTCCCTGTGCACTGTGTAGAGACAGAGTACC 60
DB 67 GACATCCAGATGACCCAGTCTCCATCTCCCTGTGCACTGTGTAGAGACAGAGTACC 126
QY 61 ATCACTTCCGGGAGTCAAGACATTTAGACATTTAAATTGTATCAGCAAAACA 120
DB 127 ATCACTTCCGGGAGTCAAGACATTTAGACATTTAAATTGTATCAGCAAAACA 186
QY 121 GGACAGCTCTCTAAGCTGCTATTACTGGGCATCTACCCGGGAATCCGGGCTCCCTGAC 180
DB 187 GGGAAAGCCCTTAACCTCTGATCTATGCTGCATCTCAAGTTGCAAGTGGGCTCCATCA 246
QY 181 CGATTGAGGGGAGTGAATCTGGGACAAATTACACTTCCATCAGACAGCTGACGCT 240
DB 247 AGGTTGAGTGGGAGTGAATCTGGGACAAATTACACTTCCATCAGACAGCTGACGCT 306
QY 241 GAAGATTTGCTACTTCTTTTGTCAACAGTCTGAGAGTTGGCCATCCTTGGGCCAA 300
DB 307 GAGATTTTGGCACTTACTACTGTAACAGTATTACAGTCACTTCCATCAGCTTGGGCCCT 366
QY 301 GGGACAGACTGGACATTTCA 321
DB 367 GGGACCAAGTGAATCAAA 387

RESULT 5
US-09-240-274-216
Sequence 216, Application US/09240274
Patent No. 6255455
GENERAL INFORMATION:
APPLICANT: Siegel, Donald L.
TITLE OF INVENTION: Rh(D)-BINDING PROTEINS AND MAGNETICALLY ACTIVATED CELL
FILE REFERENCE: 09596-4202
CURRENT APPLICATION NUMBER: US/09/240,274
CURRENT FILING DATE: 1999-01-29
EARLIER APPLICATION NUMBER: 60/081,380
EARLIER FILING DATE: 1998-04-10
EARLIER APPLICATION NUMBER: 60/028,550
EARLIER FILING DATE: 1996-10-11
NUMBER OF SEQ ID NOS: 224
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 216
LENGTH: 321
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:
OTHER INFORMATION: anti-Rh(D) antibody clone SH47
US-09-240-274-216

Query Match 69.8%; Score 224; DB 3; Length 321;
Best Local Similarity 82.4%; Pred. No. 7,7e-69;
Matches 257; Conservative 0; Mismatches 55; Indels 0; Gaps 0;

QY 6 CGAGATGACCCAGTCTCCATCTCTCTGTGCTGTGATGAGACAGAGTCAACATCAC 65
DB 3 CGAGTCAACCCAGTCTCCATCTCTCTGTGCTGTGATGAGACAGAGTCAACATCAC 62

QY 66 TTGCGGGGCAAGTCAAGACATTTAGAGCTATTAAATTGTTATCAGCAAAACAGAGACA 125
DB 63 TTGCGGGGCAAGTCAAGACATTTAGAGCTATTAAATTGTTATCAGCAAAACAGAGACA 122
QY 126 GCTCTTAAGTGTCTCATTTTACTGGGCATCTACCCGGGAATCCGGGCTCCCTGACGATT 185
DB 123 AGCCCTTAACCTCTGATCTATGCTGATCCAGTTTGCAAAAGTGGGGTCCCATCAAGTT 182
QY 186 CAGCGGCAAGTGAATCTGGGACAAATTACACTTCAACATCAGACCTGACCTGAAGA 245
DB 183 CAGTGGCAGTGGATCTGGGACAGATTTCACTCTCACATCAGCAGCTTGCAACTGAAGA 242
QY 246 TTTTGTCTTACTTTTGTCAACAGTCTGACAGTGTGGCGAATCAGCTTCGGCCAAAGGAC 305
DB 243 TTTTCAACTTACTTCTGTCAACAGATTTACAGATTATCTCTGACAGTTTCGGCCAAAGGAC 302
QY 306 ACGACTGACAT 317
DB 303 CAAGTGGAGAT 314

RESULT 6
US-09-240-274-102
Sequence 102, Application US/09240274
Patent No. 6255455
GENERAL INFORMATION:
APPLICANT: Siegel, Donald L.
TITLE OF INVENTION: Rh(D)-BINDING PROTEINS AND MAGNETICALLY ACTIVATED CELL
FILE REFERENCE: 09596-4202
CURRENT APPLICATION NUMBER: US/09/240,274
CURRENT FILING DATE: 1999-01-29
EARLIER APPLICATION NUMBER: 60/081,380
EARLIER FILING DATE: 1998-04-10
EARLIER APPLICATION NUMBER: 60/028,550
EARLIER FILING DATE: 1996-10-11
NUMBER OF SEQ ID NOS: 224
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 102
LENGTH: 321
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:
OTHER INFORMATION: anti-Rh(D) chain 102
US-09-240-274-102

Query Match 69.5%; Score 223.2; DB 3; Length 321;
Best Local Similarity 81.6%; Pred. No. 1,5e-68;
Matches 258; Conservative 0; Mismatches 58; Indels 0; Gaps 0;

QY 6 CGAGATGACCCAGTCTCCATCTCTCTGTGCTGTGATGAGACAGAGTCAACATCAC 65
DB 3 CGAGTCAACCCAGTCTCCATCTCTCTGTGCTGTGATGAGACAGAGTCAACATCAC 62
QY 66 TTGCGGGGCAAGTCAAGACATTTAGAGCTATTAAATTGTTATCAGCAAAACAGAGACA 125
DB 63 TTGCGGGGCAAGTCAAGACATTTAGAGCTATTAAATTGTTATCAGCAAAACAGAGACA 122
QY 126 GCTCTTAAGTGTCTCATTTTACTGGGCATCTACCCGGGAATCCGGGCTCCCTGACGATT 185
DB 123 AGCCCTTAACCTCTGATCTATGCTGATCCAGTTTGCAAAAGTGGGGTCCCATCAAGTT 182
QY 186 CAGCGGCAAGTGAATCTGGGACAAATTACACTTCAACATCAGACCTGACCTGAAGA 245
DB 183 CAGTGGCAGTGGATCTGGGACAGATTTCACTCTCACATCAGCAGCTTGCAACTGAAGA 242
QY 246 TTTTGTCTTACTTTTGTCAACAGTCTGACAGTGTGGCGAATCAGCTTCGGCCAAAGGAC 305
DB 243 TTTTCAACTTACTTCTGTCAACAGATTTACAGATTATCTCTGACAGTTTCGGCCAAAGGAC 302
QY 306 ACGACTGACATTTCA 321

Db 63 TTGCGGGGCAAGTCAGTACATAGACATATTAATGGTATCAGAGAAACAGGAA 122
126 GCCTCTTAAGTCTCATTTACTGGGATCTACCCGGGATCCGGGGTCCCTGACCGATT 185
Db 123 AGCCCTTAATCTCTATCTATCTGCTCATCTGTTGCAAAAGGGGTCCCATCAAGGTT 182
Qy 186 CAGCGGCAAGTATCTGGGCAAAATTAACCTCTACCATCAGAGGCTGAGCCTGAAGA 245
Db 183 CAGTGGCAGTATCTGGGCAAGATTTCACTCTACCATCAGAGGCTGAGCCTGAAGA 242
Qy 246 TTTTGCTACTTACTTTTGTCAACAGTCTGACAGTTGGCCGATCACCCTTGCGCCAGGAG 305
Db 243 TTTTGCAACTTACTACTGTCAACAGATTAAGTCCCTGAGACCTTTGGCCCTGGAG 302
Qy 306 AGCAGTGGACATTCGA 321
Db 303 CAAGTGGATATCAAA 318

RESULT 10

US-09-240-274-218
; Sequence 218, Application US/09240274
; Patent No. 6255455
; GENERAL INFORMATION:
; APPLICANT: Siegel, Donald L.
; TITLE OF INVENTION: Rh(D)-BINDING PROTEINS AND MAGNETICALLY ACTIVATED CELL
; TITLE OF INVENTION: SORTING METHOD FOR PRODUCTION THEREOF
; FILE REFERENCE: 09596-4202
; CURRENT APPLICATION NUMBER: US/09/240,274
; CURRENT FILING DATE: 1999-01-29
; EARLIER APPLICATION NUMBER: 60/081,380
; EARLIER FILING DATE: 1998-04-10
; EARLIER APPLICATION NUMBER: 60/028,550
; EARLIER FILING DATE: 1996-10-11
; NUMBER OF SEQ ID NOS: 224
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 218
; LENGTH: 321
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; OTHER INFORMATION: anti-Rh(D) antibody clone SH49
US-09-240-274-218

Query Match 69.5%; Score 223.2; DB 3; Length 321;
Best Local Similarity 81.6%; Pred. No. 1.5e-68;
Matches 258; Conservative 0; Mismatches 58; Indels 0; Gaps 0;

Qy 6 CCAGATGACCCAGTCTCCATCTCCCTGCTGATGCTGAGAGACAGATCCATCAC 65
Db 3 CGAGCTCACCCAGTCTCCATCTCCCTGCTGATGCTGAGAGACAGATCCATCAC 62
Qy 66 TTGCGGGGCAAGTCAGAGATTAAGAGCTAATTTAAATGGTATCAGAGAAACAGAGCA 125
Db 63 TTGCGGGGCAAGTCAGAGATTAAGAGCTAATTTAAATGGTATCAGAGAAACAGAGCA 122
Qy 126 GCCTCTTAAGTCTCATTTACTGGGATCTACCCGGGATCCGGGGTCCCTGACCGATT 185
Db 123 AGCCCTTAATCTCTATCTGCTCATCTGTTGCAAAAGGGGTCCCATCAAGGTT 182
Qy 186 CAGCGGCAAGTATCTGGGCAAAATTAACCTCTACCATCAGAGGCTGAGCCTGAAGA 245
Db 183 CAGTGGCAGTATCTGGGCAAGATTTCACTCTACCATCAGAGGCTGAGCCTGAAGA 242
Qy 246 TTTTGCTACTTACTTTTGTCAACAGTCTGACAGTTGGCCGATCACCCTTGCGCCAGGAG 305
Db 243 TTTTGCAACTTACTACTGTCAACAGATTAAGTCCCTGAGACCTTTGGCCCTGGAG 302
Qy 306 AGCAGTGGACATTCGA 321
Db 303 CAAGTGGATATCAAA 318

RESULT 11

US-09-859-053-29
; Sequence 29, Application US/09859053
; Patent No. 6803039
; GENERAL INFORMATION:
; APPLICANT: Teuji, Takashi
; APPLICANT: Tezuka, Katsunari
; APPLICANT: Hori, No. 6803039nak
; TITLE OF INVENTION: HUMAN MONOCLONAL ANTIBODY AGAINST A
; TITLE OF INVENTION: PHARMACEUTICAL USE THEREOF
; FILE REFERENCE: 06501-079001
; CURRENT APPLICATION NUMBER: US/09/859,053
; CURRENT FILING DATE: 2001-05-16
; PRIOR APPLICATION NUMBER: JP 2001-99508
; PRIOR FILING DATE: 2001-03-30
; PRIOR APPLICATION NUMBER: JP 2000-147116
; PRIOR FILING DATE: 2000-05-18
; NUMBER OF SEQ ID NOS: 43
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 29
; LENGTH: 974
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: 5'UTR
; LOCATION: (1)...(38)
; NAME/KEY: CDS
; LOCATION: (39)...(746)
; NAME/KEY: 3'UTR
; LOCATION: (750)...(974)
; NAME/KEY: sig peptide
; LOCATION: (39)...(104)
US-09-859-053-29

Query Match 69.1%; Score 221.8; DB 4; Length 974;
Best Local Similarity 80.7%; Pred. No. 8.3e-68;
Matches 259; Conservative 0; Mismatches 62; Indels 0; Gaps 0;

Qy 1 GAGCTCCAGATGACCCAGTCTCCATCTCCCTGCTGATGCTGAGAGACAGATCCAC 60
Db 105 GACATCCAGATGACCCAGTCTCCATCTCCCTGCTGATGCTGAGAGACAGATCCAC 164
Qy 61 ATCAGTGGCGGGCAAGTCAGAGATTAAGAGCTAATTTAAATGGTATCAGAGAAACA 120
Db 225 GGGAAAGCCCTTAAGTCTCCATCTCCCTGCTGATGCTGAGAGACAGATCCAC 284
Qy 181 CCATTCAGCGGCAAGTATCTGGGCAAAATTAACCTCTACCATCAGAGGCTGAGCCT 240
Db 285 AGTTCAGCGGCAAGTATCTGGGCAAAATTAACCTCTACCATCAGAGGCTGAGCCT 344
Qy 241 GAAGATTTGCTACTTACTTTTGTCAACAGTCTGACAGTTGGCCGATCACCCTTGCGCCAA 300
Db 345 GAAGATTTGCTACTTACTTATTTGCAACAGGCTTAAGTTCCCGGAGGCTTGCGCCAA 404
Qy 301 GGGACAGAGTGGACATTCGA 321
Db 405 GGGACCAAGTGGAAATCAAA 425

RESULT 12

US-09-240-274-199
; Sequence 199, Application US/09240274
; Patent No. 6255455
; GENERAL INFORMATION:
; APPLICANT: Siegel, Donald L.
; TITLE OF INVENTION: Rh(D)-BINDING PROTEINS AND MAGNETICALLY ACTIVATED CELL
; TITLE OF INVENTION: SORTING METHOD FOR PRODUCTION THEREOF
; FILE REFERENCE: 09596-4202

```
/ CURRENT APPLICATION NUMBER: US/09/240,274
/ CURRENT FILING DATE: 1999-01-29
/ EARLIER APPLICATION NUMBER: 60/081,380
/ EARLIER FILING DATE: 1998-04-10
/ EARLIER APPLICATION NUMBER: 60/028,550
/ EARLIER FILING DATE: 1996-10-11
/ NUMBER OF SEQ ID NOS: 224
/ SOFTWARE: Patent Ver. 2.0
/ SEQ ID NO 199
/ LENGTH: 321
/ TYPE: DNA
/ ORGANISM: Homo sapiens
/ FEATURE:
/ OTHER INFORMATION: anti-Rh(D) antibody clone SH13
US-09-240-274-199

Query Match      69.0%; Score 221.6; DB 3; Length 321;
Best Local Similarity 81.3%; Pred. No. 5,4e-68;
Matches 257; Conservative 0; Mismatches 59; Indels 0; Gaps 0;

QY 6 CCAGATGACCCAGTCTCCATCCCTCCTGTCGATCTGTAGAGACAGAGTACCATCAG 65
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 3 CAGAGTCACCCAGTCTCCATCCCTCCTGTCGATCTGTAGAGACAGAGTACCATCAG 62
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||

QY 66 TTGCCGGGGAAGTCAGAGCATTAGCAGCTATTAAATTGGTATCAGAGAAACAGAGACA 125
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 63 TTGCCGGGGAAGTCAGAGCATTAGCAGCTATTAAATTGGTATCAGAGAAACAGAGACA 122
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||

QY 126 GCCTCTTAGTCTCTATTACTGTGGCATCTACCCGGGAATCCGGGGTCCCTGACCGATT 185
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 123 AGCCCTTAGTCTCTATTACTGTGGCATCTACCCGGGAATCCGGGGTCCCTGACCGATT 182
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||

QY 186 CAGCGGAGTGAATCTGGAGCAAAATTACACTCTCACCATCAGAGCCTCAGCTGAGA 245
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 183 CAGTGCAGATGATCTGGAGAGATTTCATCTCAGCATCAGAGCTGCAACTGAGAA 242
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||

QY 246 TTTTGCTACTTATTTTGTCAACAGTCTGACAGTTTCCGAGTACCTTGGCCAAAGGAGC 305
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 243 TTTTGCACTTACTACTGTCAACAGAGTTACAGTACCCCTTACACTTTTGGCAGGGGAGC 302
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||

QY 306 ACGACTGACATTCAA 321
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 303 CAGCTGGAGATCAAA 318
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||

RESULT 13
US-09-042-353-358
/ Sequence 358, Application US/09042353
/ Patent No. 6255458
/ GENERAL INFORMATION:
/ APPLICANT: Lonberg, Nils
/ APPLICANT: Kay, Robert M.
/ TITLE OF INVENTION: Transgenic No. 6255458-Human Animals for
/ TITLE OF INVENTION: Producing Heterologous Antibodies
/ NUMBER OF SEQUENCES: 421
/ CORRESPONDENCE ADDRESS:
/ ADDRESSEE: Townsend and Townsend and Crew LLP
/ STREET: Two Embarcadero Center, Eighth Floor
/ CITY: San Francisco
/ STATE: California
/ COUNTRY: USA
/ ZIP: 94111-3834
/ COMPUTER READABLE FORM:
/ MEDIUM TYPE: Floppy disk
/ OPERATING SYSTEM: IBM PC compatible
/ SOFTWARE: Patent Release #1.0, Version #1.30
/ CURRENT APPLICATION DATA:
/ APPLICATION NUMBER: US/09/042,353
/ FILING DATE: 13-MAR-1998
/ CLASSIFICATION: 800
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: US 07/810,279
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/ FILING DATE: 17-DEC-1991
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: US 07/853,408
/ FILING DATE: 18-MAR-1992
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: US 07/904,068
/ FILING DATE: 23-JUN-1992
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: US 07/990,860
/ FILING DATE: 16-DEC-1992
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: US 08/053,131
/ FILING DATE: 26-APR-1993
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: US 08/096,762
/ FILING DATE: 22-JUL-1993
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: US 08/155,301
/ FILING DATE: 18-NOV-1993
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: US 08/161,739
/ FILING DATE: 03-DEC-1993
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: US 08/165,699
/ FILING DATE: 10-DEC-1993
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: US 08/209,741
/ FILING DATE: 09-MAR-1994
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: US 08/352,322
/ FILING DATE: 07-DEC-1994
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: US 08/544,404
/ FILING DATE: 10-OCT-1995
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: US 08/728,463
/ FILING DATE: 10-OCT-1996
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: WO PCT/US96/16433
/ FILING DATE: 10-OCT-1996
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: US 08/758,417
/ FILING DATE: 02-DEC-1996
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: WO PCT/US97/21803
/ FILING DATE: 01-DEC-1997
/ ATTORNEY/AGENT INFORMATION:
/ NAME: Apple, Randolph T.
/ REGISTRATION NUMBER: 36,429
/ REFERENCE/DOCKET NUMBER: 014643-009040US
/ TELEPHONE: (415) 576-0200
/ TELEFAX: (415) 576-0300
/ INFORMATION FOR SEQ ID NO: 358:
/ SEQUENCE CHARACTERISTICS:
/ LENGTH: 388 base pairs
/ TYPE: nucleic acid
/ STRANDEDNESS: single
/ TOPOLOGY: linear
/ MOLECULE TYPE: DNA
US-09-042-353-358

Query Match      68.6%; Score 220.2; DB 3; Length 388;
Best Local Similarity 80.4%; Pred. No. 1.9e-67;
Matches 258; Conservative 0; Mismatches 63; Indels 0; Gaps 0;

QY 1 GAGCTTCAGATGACCCAGTCTTCATCTCCCTGTCGATCTGTAGAGACAGAGTACCC 60
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 67 GAGATTCAGATGACCCAGTCTTCATCTCCCTGTCGATCTGTAGAGACAGAGTACCC 126
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||

QY 61 ATCACTTCCGGGGAAGTCAGAGCATTAGCAGCTATTAAATTGGTATCAGAGAAACCA 120
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 127 ATCACTTCCGGGGAAGTCAGAGCATTAGCAGCTATTAAATTGGTATCAGAGAAACCA 186
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
```

QY 121 GGAAGCTCTAGCTGCTCATTTTCTGGGATCTACCCGGGAATCCGGGTCCTGAC 180
DB 187 GGGAAAGCCCCCTAGCTCCGATCTATGCTGATCCAGTTTGGAAAGTGGGTCCTCATCA 246
QY 181 CGATTGAGCGGCGAGTGAATCTGGGACAAATTAACATCTCCACATGACGAGCTGACGCT 240
DB 247 AGCTTACGGCGAGTGAATCTGGGACGATTTTCACTCTCCATCCATGACGAGCTGACGCT 306
QY 241 GAAGATTTTGTCTACTTCTTTTGTCAACAGCTGACAGTTTGGCCGATCAGCTTGGCCAA 300
DB 307 GAAGATTTTGTCACTTACTTATGTCACAGGCTAATATGTTCCCGTACACTTTTGGCCAG 366
QY 301 GGGACGAGCTGACATTCAA 321
DB 367 GGGACCAAGCTGGAGATCAAA 387

RESULT 14
US-08-758-417A-206
Sequence 206, Application US/08758417A
Patent No. 6300129
GENERAL INFORMATION:
APPLICANT: Lomberg, Nile
Kay, Robert M.
TITLE OF INVENTION: Transgenic No. 6300129-Human Animals for
Producing Heterologous Antidodies
NUMBER OF SEQUENCES: 417
CORRESPONDENCE ADDRESS:
ADDRESSEE: Townsend and Townsend and Crew LLP
STREET: Two Embarcadero Center, Eighth Floor
CITY: San Francisco
STATE: California
COUNTRY: USA
ZIP: 94111-3834
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/758,417A
FILING DATE: 02-Dec-1996
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/728,463
FILING DATE: 10-OCT-1996
APPLICATION NUMBER: US 08/544,404
FILING DATE: 10-OCT-1995
APPLICATION NUMBER: US 08/352,322
FILING DATE: 07-DEC-1994
APPLICATION NUMBER: US 08/209,741
FILING DATE: 09-MAR-1994
APPLICATION NUMBER: US 08/165,699
FILING DATE: 10-DEC-1993
APPLICATION NUMBER: US 08/161,739
FILING DATE: 03-DEC-1993
APPLICATION NUMBER: US 08/155,301
FILING DATE: 18-NOV-1993
APPLICATION NUMBER: US 08/096,762
FILING DATE: 22-JUL-1993
APPLICATION NUMBER: US 08/053,131
FILING DATE: 26-APR-1993
APPLICATION NUMBER: US 07/990,860
FILING DATE: 16-DEC-1992
ATTORNEY/AGENT INFORMATION:
NAME: Serafini, Andrew T.
REGISTRATION NUMBER: 41,303
REFERENCE/DOCKET NUMBER: 014643-009030US
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 576-0200
TELEFAX: (415) 576-0300
INFORMATION FOR SEQ ID NO: 206:

SEQUENCE CHARACTERISTICS:
LENGTH: 388 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA
SEQUENCE DESCRIPTION: SEQ ID NO: 206:
US-08-758-417A-206

Query Match 68.6%; Score 220.2; DB 3; Length 388;
Best Local Similarity 80.4%; Pred. No. 1.9e-67;
Matches 258; Conservative 0; Mismatches 63; Indels 0; Gaps 0;

QY 1 GAGCTCCAGATGACCCAGTCTCCATCTCCCTGCTGCAATCTGTAGAGACAGAGTCCAC 60
DB 67 GACATCCAGATGACCCAGTCTCCATCTCCCTGCTGCAATCTGTAGAGACAGAGTCCAC 126
QY 61 ATCACTTGGCGGCGAAGTGAAGATGAGATGAGATGAGATGAGATGAGATGAGATGAGAT 120
DB 127 ATCACTTGGCGGCGAAGTGAAGATGAGATGAGATGAGATGAGATGAGATGAGATGAGAT 186
QY 121 GGAAGCTCTCTAGCTGCTCATTTTCTGGGATCTACCCGGGAATCCGGGTCCTGAC 180
DB 187 GGGAAAGCCCCCTAGCTCCGATCTATGCTGATCCAGTCCAAAGTGGGGTCCCATCA 246
QY 181 CGATTGAGCGGCGAGTGAATCTGGGACAAATTAACATCTCCACATGACGAGCTGACGCT 240
DB 247 AGCTTACGGCGAGTGAATCTGGGACGATTTTCACTCTCCATCCATGACGAGCTGACGCT 306
QY 241 GAAGATTTTGTCTACTTCTTTTGTCAACAGCTGACAGTTTGGCCGATCAGCTTGGCCAA 300
DB 307 GAAGATTTTGTCACTTACTTATGTCACAGGCTAATATGTTCCCGTACACTTTTGGCCAG 366
QY 301 GGGACGAGCTGACATTCAA 321
DB 367 GGGACCAAGCTGGAGATCAAA 387

RESULT 15
US-09-240-274-107
Sequence 107, Application US/09240274
Patent No. 6255455
GENERAL INFORMATION:
APPLICANT: Siegel, Donald L.
TITLE OF INVENTION: Rn(D)-BINDING PROTEINS AND MAGNETICALLY ACTIVATED CELL
FILE REFERENCE: 09596-4202
CURRENT APPLICATION NUMBER: US/09/240,274
CURRENT FILING DATE: 1999-01-29
EARLIER APPLICATION NUMBER: 60/081,380
EARLIER FILING DATE: 1998-04-10
EARLIER APPLICATION NUMBER: 60/028,550
EARLIER FILING DATE: 1996-10-11
NUMBER OF SEQ ID NOS: 224
SOFTWARE: Patentin Ver. 2.0
SEQ ID NO 107
LENGTH: 321
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:
OTHER INFORMATION: anti-Rh(D) chain 107
US-09-240-274-107

Query Match 68.5%; Score 220; DB 3; Length 321;
Best Local Similarity 81.0%; Pred. No. 2e-67;
Matches 256; Conservative 0; Mismatches 60; Indels 0; Gaps 0;

QY 6 CGAGATGACCCAGTCTCCATCTCCCTGCTGCAATCTGTAGAGACAGAGTCCAC 65
DB 3 CGAGCTCAGCCAGTCTCCATCTCCCTGCTGCAATCTGTAGAGACAGAGTCCAC 62
QY 66 TTGCGGCGAAGTGAAGATGAGATGAGATGAGATGAGATGAGATGAGATGAGATGAGAT 125

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Db      63 TTGCCGGGCAAGTCAGAGCATTAGCAGCTATTTTAAATGGTATCAGCAGAAACAGGGAA 122
Qy      126 GCCTCCTTAGCTGCTCATTTACTGGGCATCTACCCGGGAATCCGGGTCCTGACCGATT 185
Db      123 AGCCCTTAGCTCCTGATCTATGCTGCAATCCAGTTTGCAAGTGGGTCCCATCAAGGTT 182
Qy      186 CAGCGGCACTGAATCTGGGACAATAATTACACTCTCACCATCAGCAGCCTGCAGCCTGAAGA 245
Db      183 CAGTGGCAGTGGATCTGGGACAGATTTTCACTCTCACCATCAGCAGTCTGCMAACTGAAGA 242
Qy      246 TTTTGCTACTTACTTTTGCAACAGTCTGACAGTTTGCCGATCACCCTTGCGCCAAAGGAC 305
Db      243 TTTTGCACTTACTCTGCAACAGATTACAGTACCCTCGAATTTCGGCGAGGGAC 302
Qy      306 ACGACTGACATTCAA 321
Db      303 CAAGGTGAGATCAAA 318

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Search completed: September 11, 2005, 22:54:10
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GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: September 11, 2005, 21:22:08 / Search time 508.25 Seconds
(without alignments)
4147.731 Million cell updates/sec

Title: US-09-403-107-147

Perfect score: 321

Sequence: 1 gagctccagatgaccagctc.....ggacacagctgacattcaa 321

Scoring table: IDENTITY_NUC

Gapop 10.0, Gapext 1.0

Searched: 7351250 seqs, 3283620254 residues

Total number of hits satisfying chosen parameters: 14702500

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

Published Applications NA.*
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26: /cgn2_6/ptodata/2/pubpna/US60_PUBCOMB.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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1	321	100.0	321	15	US-10-325-694-147
2	255.4	79.6	321	15	US-10-325-694-141
3	245.8	76.6	324	19	US-10-344-514-7
4	245.8	76.6	324	19	US-10-344-514-8
5	240.8	75.0	321	10	US-09-848-798-106
6	240.2	74.8	321	19	US-10-703-714-11
7	240.2	74.8	321	19	US-10-703-714-19

8	239.4	74.6	322	17	US-10-309-762-215	Sequence 215, App
9	239.4	74.6	322	17	US-10-309-762-228	Sequence 228, App
10	237.8	74.1	321	21	US-10-727-155-155	Sequence 155, App
11	236.2	73.6	321	21	US-10-727-155-141	Sequence 141, App
12	236.2	73.6	321	21	US-10-727-155-159	Sequence 159, App
13	236.2	73.6	322	17	US-10-309-762-213	Sequence 213, App
14	236.2	73.6	322	17	US-10-309-762-238	Sequence 238, App
15	236.2	73.6	458	21	US-10-644-277-55	Sequence 55, App
16	235	73.2	1106	21	US-10-264-049-121	Sequence 121, App
17	233	72.6	321	21	US-10-727-155-149	Sequence 149, App
18	233	72.6	321	21	US-10-949-135-25	Sequence 25, App
19	231.4	72.1	333	16	US-10-203-754A-60	Sequence 60, App
20	231.4	72.1	720	9	US-09-192-854-1	Sequence 1, Appl
21	231.4	72.1	720	9	US-09-968-561A-1	Sequence 1, Appl
22	231.4	72.1	720	10	US-09-968-561A-1	Sequence 1, Appl
23	231.4	72.1	720	11	US-09-968-561A-1	Sequence 1, Appl
24	231.4	72.1	720	20	US-10-744-774-2	Sequence 2, Appl
25	231.4	72.1	900	16	US-10-203-754A-64	Sequence 64, Appl
26	230.4	71.8	321	21	US-10-949-135-9	Sequence 9, Appl
27	229.8	71.6	321	17	US-10-338-366-11	Sequence 11, Appl
28	229.8	71.6	322	22	US-10-916-860-115	Sequence 115, App
29	229.8	71.6	324	19	US-10-344-514-3	Sequence 3, Appl
30	229.8	71.6	324	19	US-10-344-514-4	Sequence 4, Appl
31	229.8	71.6	729	15	US-10-216-484-125	Sequence 125, App
32	229.8	71.6	729	16	US-10-384-933-125	Sequence 125, App
33	229.6	71.5	348	22	US-10-916-758-40	Sequence 40, Appl
34	228.2	71.1	322	17	US-10-309-762-226	Sequence 226, App
35	228.2	71.1	322	17	US-10-309-762-227	Sequence 227, App
36	228.2	71.1	324	20	US-10-409-814A-3	Sequence 3, Appl
37	228.2	71.1	405	21	US-10-783-311-15	Sequence 15, Appl
38	228.2	71.1	405	21	US-10-783-311-16	Sequence 16, Appl
39	228.2	71.1	702	21	US-10-938-353-3	Sequence 3, Appl
40	228.2	71.1	714	14	US-10-153-382-18	Sequence 18, Appl
41	228.2	71.1	714	20	US-10-612-497-62	Sequence 62, Appl
42	228.2	71.1	714	20	US-10-776-649-62	Sequence 62, Appl
43	228.2	71.1	819	14	US-10-158-646-55	Sequence 65, Appl
44	226.6	70.6	322	16	US-10-041-860-74	Sequence 74, Appl
45	226.6	70.6	322	17	US-10-309-762-221	Sequence 221, App

ALIGNMENTS

RESULT 1
US-10-325-694-147
; Sequence 147, Application US/10325694
; Publication No. US20030148463A1
; GENERAL INFORMATION:
; APPLICANT: KUPFER, PETER
; APPLICANT: RAUM, TOBIAS
; TITLE OF INVENTION: NOVEL METHOD FOR THE PRODUCTION OF ANTI-HUMAN ANTIGEN
; FILE REFERENCE: 38164000
; CURRENT APPLICATION NUMBER: US/10/325,694
; CURRENT FILING DATE: 2002-12-19
; PRIOR APPLICATION NUMBER: US/09/403,107
; PRIOR FILING DATE: 1999-10-14
; NUMBER OF SEQ ID NOS: 152
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 147
; LENGTH: 321
; TYPE: DNA
; ORGANISM: HUMAN
US-10-325-694-147

Query Match 100.0%; Score 321; DB 15; Length 321;
Best Local Similarity 100.0%; Pred. No. 3.3e-101; Indels 0; Gaps 0;
Matches 321; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 GAGCTCCAGATGACCAGCTTCATCTCCCTGCTGCAATCTGTAAGAGACAGACTCAC 60
DB 1 GAGCTCCAGATGACCAGCTTCATCTCCCTGCTGCAATCTGTAAGAGAGACTCAC 60

QY 61 ATCACTTGGCGGGCAGTGCAGATAGCATTAAGCTATTAAATTGGTATCAGAGAAACCA 120
Db 61 ATCACTTGGCGGGCAGTGCAGATAGCATTAAGCTATTAAATTGGTATCAGAGAAACCA 120
QY 121 GGAACAGCTCTTAAGTGTCTCATTTACTG3GCACTTACCCGGGAATCCGGGTCCTGTAC 180
Db 121 GGAACAGCTCTTAAGTGTCTCATTTACTG3GCACTTACCCGGGAATCCGGGTCCTGTAC 180
QY 181 CGATTGAGGGGAGTGAATCTGGGAGCAAAATTACACTCTGACCATCAGACGCTGAGAGCT 240
Db 181 CGATTGAGGGGAGTGAATCTGGGAGCAAAATTACACTCTGACCATCAGACGCTGAGAGCT 240
QY 241 GAAGATTTTGTACTTACTTTGTCTCAACAGTCTGACAGTTTGGCCATCCTTCGGCCAA 300
Db 241 GAAGATTTTGTACTTACTTTGTCTCAACAGTCTGACAGTTTGGCCATCCTTCGGCCAA 300
QY 301 GGGACACGAGCTGGACATTCAA 321
Db 301 GGGACACGAGCTGGACATTCAA 321

RESULT 2

US-10-325-694-141
; Sequence 141, Application US/10325694
; Publication No. US20030148463A1
; GENERAL INFORMATION:
; APPLICANT: KUPER, PETER
; APPLICANT: RAUM, TOBIAS
; TITLE OF INVENTION: NOVEL METHOD FOR THE PRODUCTION OF ANTI-HUMAN ANTIGEN
; FILE REFERENCE: 38164000
; CURRENT APPLICATION NUMBER: US/10/325,694
; PRIOR FILING DATE: 2002-12-19
; PRIOR APPLICATION NUMBER: US/09/403,107
; NUMBER OF SEQ ID NOS: 152
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 141
; LENGTH: 321
; TYPE: DNA
; ORGANISM: HUMAN
US-10-325-694-141

Query Match 79.6%; Score 255.4; DB 15; Length 321;
Best Local Similarity 87.2%; Pred. No. 2.5e-78;
Matches 280; Conservative 0; Mismatches 41; Indels 0; Gaps 0;

QY 1 GAGCTCCAGATGACCCAGTCTCCATCTCTGTCTGCACTGTGAGAGACAGATCACC 60
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QY 61 ATCACTTGGCGGGCAGTGCAGATAGCATTAAGCTATTAAATTGGTATCAGAGAAACCA 120
Db 61 ATCACTTGGCGGGCAGTGCAGATAGCATTAAGCTATTAAATTGGTATCAGAGAAACCA 120
QY 121 GGAACAGCTCTTAAGTGTCTCATTTACTG3GCACTTACCCGGGAATCCGGGTCCTGTAC 180
Db 121 GGAACAGCTCTTAAGTGTCTCATTTACTG3GCACTTACCCGGGAATCCGGGTCCTGTAC 180
QY 181 CGATTGAGGGGAGTGAATCTGGGAGCAAAATTACACTCTGACCATCAGACGCTGAGAGCT 240
Db 181 CGATTGAGGGGAGTGAATCTGGGAGCAAAATTACACTCTGACCATCAGACGCTGAGAGCT 240
QY 241 GAAGATTTTGTACTTACTTTGTCTCAACAGTCTGACAGTTTGGCCATCCTTCGGCCAA 300
Db 241 GAAGATTTTGTACTTACTTTGTCTCAACAGTCTGACAGTTTGGCCATCCTTCGGCCAA 300
QY 301 GGGACACGAGCTGGACATTCAA 321
Db 301 GGGACACGAGCTGGACATTCAA 321

RESULT 3

US-10-344-514-7
; Sequence 7, Application US/10344514
; Publication No. US20040120951A1
; GENERAL INFORMATION:
; APPLICANT: NAKASHIMA, Toshihiro et al.
; TITLE OF INVENTION: HUMAN ANTI-FACTOR VIII ANTIBODY
; FILE REFERENCE: 0020-5111P
; CURRENT APPLICATION NUMBER: US/10/344,514
; PRIOR FILING DATE: 2003-07-28
; PRIOR APPLICATION NUMBER: JP 2001-177640
; NUMBER OF SEQ ID NOS: 18
; SEQ ID NO 7
; LENGTH: 324
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-344-514-7

Query Match 76.6%; Score 245.8; DB 19; Length 324;
Best Local Similarity 85.4%; Pred. No. 5.6e-75;
Matches 274; Conservative 0; Mismatches 47; Indels 0; Gaps 0;

QY 1 GAGCTCCAGATGACCCAGTCTCCATCTCTGTCTGCACTGTGAGAGACAGATCACC 60
Db 1 GAGCTCCAGATGACCCAGTCTCCATCTCTGTCTGCACTGTGAGAGAGAGATCACC 60
QY 61 ATCACTTGGCGGGCAGTGCAGATAGCATTAAGCTATTAAATTGGTATCAGAGAAACCA 120
Db 61 ATCACTTGGCGGGCAGTGCAGATAGCATTAAGCTATTAAATTGGTATCAGAGAAACCA 120
QY 121 GGAACAGCTCTTAAGTGTCTCATTTACTG3GCACTTACCCGGGAATCCGGGTCCTGTAC 180
Db 121 GGAACAGCTCTTAAGTGTCTCATTTACTG3GCACTTACCCGGGAATCCGGGTCCTGTAC 180
QY 181 CGATTGAGGGGAGTGAATCTGGGAGCAAAATTACACTCTGACCATCAGAGCTGAGAGCT 240
Db 181 CGATTGAGGGGAGTGAATCTGGGAGCAAAATTACACTCTGACCATCAGAGCTGAGAGCT 240
QY 241 GAAGATTTTGTACTTACTTTGTCTCAACAGTCTGACAGTTTGGCCATCCTTCGGCCAA 300
Db 241 GAAGATTTTGTACTTACTTTGTCTCAACAGTCTGACAGTTTGGCCATCCTTCGGCCAA 300
QY 301 GGGACACGAGCTGGACATTCAA 321
Db 301 GGGACACGAGCTGGACATTCAA 321

RESULT 4

US-10-344-514-8
; Sequence 8, Application US/10344514
; Publication No. US20040120951A1
; GENERAL INFORMATION:
; APPLICANT: NAKASHIMA, Toshihiro et al.
; TITLE OF INVENTION: HUMAN ANTI-FACTOR VIII ANTIBODY
; FILE REFERENCE: 0020-5111P
; CURRENT APPLICATION NUMBER: US/10/344,514
; PRIOR FILING DATE: 2003-07-28
; PRIOR APPLICATION NUMBER: JP 2001-177640
; NUMBER OF SEQ ID NOS: 18
; SEQ ID NO 8
; LENGTH: 324
; TYPE: DNA
; ORGANISM: Homo sapiens
; NAME/KEY: CDS
; LOCATION: (1) .. (324)
US-10-344-514-8

Query Match 76.6%; Score 245.8; DB 19; Length 324;
Best Local Similarity 85.4%; Pred. No. 5.6e-75;
Matches 274; Conservative 0; Mismatches 47; Indels 0; Gaps 0;

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QY 1 GAGCTCGAATGACCCAGTCTCCCTGCTGATCTGTAGAGACAGATCAC 60
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Db 1 GAGATCAAGTTCACCAAGTCTCATCTCTCTGATCTGTAGAGACAGATCAC 60
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QY 61 ATGACTTGGCGGCAAGTCAAGACATTAGAGCTATTAAATTGTATCAGCAAAACA 120
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Db 61 ATGACTTGGCGGCAAGTCAAGACATTAGAGCTATTAAATTGTATCAGCAAAACA 120
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QY 121 GAGACAGCTCTTAAAGTCTGATTTTACTGGGATCTACCCGGAAATCCGGGTCCTGAC 180
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Db 121 GGGAAAGCCCCCTAGCTCCGATCTGTGATCTCAAGTTGCAAGTGGGTCCTCATCA 180
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QY 181 CGATTGAGCGGCGAGTGAATCTGGGACAAATTATCACTCTACCATCAGAGCTGACGCT 240
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Db 181 AGGTTAGTGGCGATGATCTGGGACAGATTTTCACTCTCACTACAGAGCTGACGCT 240
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QY 241 GAAGATTTTGTCTACTTATTTGTCAACAGTCTGACAGTTTGGCATCCTTGGCGCA 300
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RESULT 5
US-09-848-798-106
; Sequence 106, Application US/09848798
; Publication No. US2003040605A1
; GENERAL INFORMATION:
; APPLICANT: Siegel, Donald L.
; TITLE OF INVENTION: RH(D)-BINDING PROTEINS AND MAGNETICALLY ACTIVATED CELL
; TITLE OF INVENTION: SORTING METHOD FOR PRODUCTION THEREOF
; FILE REFERENCE: 09596-4202
; CURRENT APPLICATION NUMBER: US/09/848,798
; CURRENT FILING DATE: 2001-05-04
; PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 09/240,274
; PRIOR FILING DATE: EARLIER FILING DATE: 1999-01-29
; PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 60/028,550
; PRIOR FILING DATE: EARLIER FILING DATE: 1996-10-11
; NUMBER OF SEQ ID NOS: 224
; SOFTWARE: Patent Ver. 2.0
; SEQ ID NO 106
; LENGTH: 321
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; OTHER INFORMATION: anti-Rh(D) chain 106
US-09-848-798-106

Query Match 75.0%; Score 240.8; DB 10; Length 321;
Best Local Similarity 85.1%; Pred. No. 3.1e-73;
Matches 269; Conservative 0; Mismatches 47; Indels 0; Gaps 0;

QY 6 CGAGAGACCCAGTCTCCATCCCTGCTGATCTGTAGAGACAGATCACATCAC 65
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Db 3 CGAGTCAACCAAGTCTCCATCCCTGCTGATCTGTAGAGACAGATCACATCAC 62
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QY 66 TTGCGCGGCAAGTCAAGACATTAGAGCTATTAAATTGTATCAGCAAAACAAGACA 125
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Db 63 TTGCGCGGCAAGTCAAGACATTAGAGCTATTAAATTGTATCAGCAAAACAAGACA 122
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QY 126 GCTCTCTAAGTCTGATTTTACTGGGATCTACCCGGAAATCCGGGTCCTGACGAT 185
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Db 123 AGCCCTTAAGTCTGATTTTACTGGGATCTACCCGGAAATCCGGGTCCTGACGAT 182
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QY 186 CAGCGGAGTGAATCTGGGACAAATTATCACTCTACCATCAGAGCTGACGCTGACG 245
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Db 183 CAGTGGCAGTGAATCTGGGACAAATTATCACTCTACCATCAGAGCTGACGCTGACG 242
| | | | | | | | | | | | | | | | | | | | | | | | | | | |
QY 246 TTTTGTACTTACTTTTGTCAACAGTCTGACAGTTTGGCGATCACCTTGGCGCAAGGAC 305
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Db 243 TTTTGAATTACTTACTGTCAACAGATTTAGATGATCCCGATCCTTGGCGCAAGGAC 302
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QY 306 ACGACTGACATTCAA 321
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RESULT 6
US-10-703-714-11
; Sequence 11, Application US/10703714
; Publication No. US20040170630A1
; GENERAL INFORMATION:
; APPLICANT: Huang, Haichun
; APPLICANT: Holmes, Steven
; APPLICANT: Mason, Sean
; TITLE OF INVENTION: HUMAN MONOCLONAL ANTIBODIES TO HEPAPARINASE
; FILE REFERENCE: MX1-294
; CURRENT APPLICATION NUMBER: US/10/703,714
; CURRENT FILING DATE: 2003-11-07
; PRIOR APPLICATION NUMBER: 60/424803
; PRIOR FILING DATE: 2002-11-07
; NUMBER OF SEQ ID NOS: 64
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 11
; LENGTH: 321
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (1)...(321)
US-10-703-714-11

Query Match 74.8%; Score 240.2; DB 19; Length 321;
Best Local Similarity 84.9%; Pred. No. 5e-73;
Matches 269; Conservative 0; Mismatches 48; Indels 0; Gaps 0;

QY 5 TCAGATGACCCAGTCTCCATCCCTGCTGATCTGTAGAGACAGATCACATCA 64
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Db 5 TCAGATGACCCAGTCTCCATCCCTGCTGATCTGTAGAGACAGATCACATCA 64
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QY 65 CTTCGCGGCAAGTCAAGACATTAGAGCTATTAAATTGTATCAGCAAAACAAGAC 124
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Db 65 CTTCGCGGCAAGTCAAGACATTAGAGCTATTAAATTGTATCAGCAAAACAAGAC 124
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QY 125 AGCTTCTTAAGTCTGATTTTACTGGGATCTACCCGGAAATCCGGGTCCTGACGAT 184
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Db 125 AGCTTCTTAAGTCTGATTTTACTGGGATCTACCCGGAAATCCGGGTCCTGACGAT 184
| | | | | | | | | | | | | | | | | | | | | | | | | | | |
QY 185 TCAGCGGAGTGAATCTGGGACAAATTATCACTCTACCATCAGAGCTGACGCTGACG 244
| | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db 185 TCAGCGGAGTGAATCTGGGACAAATTATCACTCTACCATCAGAGCTGACGCTGACG 244
| | | | | | | | | | | | | | | | | | | | | | | | | | | |
QY 245 ATTTGTACTTACTTTTGTCAACAGTCTGACAGTTTGGCGATCACTTGGCGCAAGGGA 304
| | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db 245 ATTTGTCAACTTACTTGTCAACAGTCTTAAATGTTACCCGATCACTTGGCGCAAGGGA 304
| | | | | | | | | | | | | | | | | | | | | | | | | | | |
QY 305 CAGGACTGAGATTCAA 321
| | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db 305 CAGGACTGAGATTAAA 321
| | | | | | | | | | | | | | | | | | | | | | | | | | | |

RESULT 7
US-10-703-714-19
; Sequence 19, Application US/10703714
; Publication No. US20040170630A1
; GENERAL INFORMATION:
; APPLICANT: Huang, Haichun
; APPLICANT: Holmes, Steven
; APPLICANT: Mason, Sean
; TITLE OF INVENTION: HUMAN MONOCLONAL ANTIBODIES TO HEPAPARINASE
; FILE REFERENCE: MX1-294
; CURRENT APPLICATION NUMBER: US/10/703,714
; CURRENT FILING DATE: 2003-11-07
; PRIOR APPLICATION NUMBER: 60/424803
```

;; PRIOR FILING DATE: 2002-11-07
;; NUMBER OF SEQ ID NOS: 64
;; SOFTWARE: FastSeq for Windows Version 4.0
;; SEQ ID NO 19
;; LENGTH: 321
;; TYPE: DNA
;; ORGANISM: Homo sapiens
;; FEATURE:
;; NAME/KEY: CDS
;; LOCATION: (1)...(321)
US-10-703-714-19

Query Match 74.8%; Score 240.2; DB 19; Length 321;
Best Local Similarity 84.9%; Pred. No. 5e-73;
Matches 269; Conservative 0; Mismatches 48; Indels 0; Gaps 0;

QY 5 TCCAGATGACCCAGTCTCCATCTCCCTGTGCGATCTGTAGAGACAGAGTCACCATCA 64
DB 5 TCCAGTTCAGCCAGTCTCCATCTCCCTGTGCGATCTGTAGAGACAGAGTCACCATCA 64
QY 65 CTTGCCGGGCAAGTCAGAGCATTTAGAGCATTTAAATGTATCGAGAAACCGAGAC 124
DB 65 CTTGCCGGGCAAGTCAGAGCATTTAGAGCATTTAAATGTATCGAGAAACCGAGAC 124
QY 125 AGCCTCTTAAGCTGTCTATTACTGCGCATCTACCCGGGAATCCGGGTCCTGACCGAT 184
DB 125 AGCCTCTTAAGCTGTCTATTACTGCGCATCTACCCGGGAATCCGGGTCCTGACCGAT 184
QY 185 TCAGCGGCGAGTGATCTGGGACAAATTAACACTTCACCATCGAGAGCTTGCAGCTGAAG 244
DB 185 TCAGCGGCGAGTGATCTGGGACAAATTAACACTTCACCATCGAGAGCTTGCAGCTGAAG 244
QY 245 ATTTGCTCTACTACTTTTGCAACAGTCTGACAGGTTGGCGATCAGCTTCGGCAAGGGA 304
DB 245 ATTTGCTCTACTACTTTTGCAACAGTCTGACAGGTTGGCGATCAGCTTCGGCAAGGGA 304
QY 305 CACGACTGGACATTCAA 321
DB 305 CACGACTGGAGATTAA 321

RESULT 8
US-10-309-762-215
;; Sequence 215, Application US/10309762
;; Publication No. US20040018198A1
;; GENERAL INFORMATION:
;; APPLICANT: Gudae, Jean
;; APPLICANT: Foltz, Ian
;; APPLICANT: Handa, Masahisa
;; APPLICANT: Gallo, Michael
;; TITLE OF INVENTION: ANTIBODIES AGAINST CARBOXYIC ANHYDRASE IX
;; TITLE OF INVENTION: (CA IX) TUMOR ANTIGEN
;; FILE REFERENCE: ABGENIX.027A
;; CURRENT APPLICATION NUMBER: US/10/309,762
;; CURRENT FILING DATE: 2002-12-02
;; PRIOR APPLICATION NUMBER: 60/337275
;; PRIOR FILING DATE: 2001-12-03
;; NUMBER OF SEQ ID NOS: 246
;; SOFTWARE: FastSeq for Windows Version 4.0
;; SEQ ID NO 215
;; LENGTH: 322
;; TYPE: DNA
;; ORGANISM: Homo sapiens
US-10-309-762-215

Query Match 74.6%; Score 239.4; DB 17; Length 322;
Best Local Similarity 84.1%; Pred. No. 9.5e-73;
Matches 270; Conservative 0; Mismatches 51; Indels 0; Gaps 0;

QY 1 GAGCTCCAGTACCCAGTCTCCATCTCCCTGTGCGATCTGTAGAGACAGAGTCAC 60
DB 1 GAGCTCCAGTACCCAGTCTCCATCTCCCTGTGCGATCTGTAGAGACAGAGTCAC 60

QY 61 ATCACTTCCGGGCGAGTCAGAGCATTTAGAGCATTTAAATGGTATCAGAGAAACCA 120
DB 61 ATCACTTTCGGGCGAGTCAGAGCATTTAGAGCATTTAGAGCATTTAAATGGTATCAGAGAAACCA 120
QY 121 GGACAGCTCTTACGCTGCTCATTTACTGCGCATTTACCCGGGAATCCGGGTCCTTAC 180
DB 121 GGGAAGCCCTTAAGCTCTTATCTATCTCATCTCAATTTGCAAAAGTGGGTCCTTAC 180
QY 181 CGATTGAGGCGAGGATCTGGGACAAATTAACAATCTCACATCAGAGGCTGAGGCT 240
DB 181 AGTTTCAGGCGAGGATCTGGGACAAATTTCACTTCACATCAGAGGCTGAGGCT 240
QY 241 GAAGATTTTGTACTTACTTTTGTCAACAGTCTGACAGTTTCCGATCAGCTTGGCCAA 300
DB 241 GAAGATTTTGTCAACTTATTTGTCAACAGGCTAACAGTTTCCGATCAGCTTGGCCAA 300
QY 301 GGGACACGACTGGACATTCAA 321
DB 301 GGGACACGACTGGAGATTAA 321

RESULT 9
US-10-309-762-228
;; Sequence 228, Application US/10309762
;; Publication No. US20040018198A1
;; GENERAL INFORMATION:
;; APPLICANT: Gudae, Jean
;; APPLICANT: Foltz, Ian
;; APPLICANT: Handa, Masahisa
;; APPLICANT: Gallo, Michael
;; TITLE OF INVENTION: ANTIBODIES AGAINST CARBOXYIC ANHYDRASE IX
;; TITLE OF INVENTION: (CA IX) TUMOR ANTIGEN
;; FILE REFERENCE: ABGENIX.027A
;; CURRENT APPLICATION NUMBER: US/10/309,762
;; CURRENT FILING DATE: 2002-12-02
;; PRIOR APPLICATION NUMBER: 60/337275
;; PRIOR FILING DATE: 2001-12-03
;; NUMBER OF SEQ ID NOS: 246
;; SOFTWARE: FastSeq for Windows Version 4.0
;; SEQ ID NO 228
;; LENGTH: 322
;; TYPE: DNA
;; ORGANISM: Homo sapiens
US-10-309-762-228

Query Match 74.6%; Score 239.4; DB 17; Length 322;
Best Local Similarity 84.1%; Pred. No. 9.5e-73;
Matches 270; Conservative 0; Mismatches 51; Indels 0; Gaps 0;

QY 1 GAGCTCCAGTACCCAGTCTCCATCTCCCTGTGCGATCTGTAGAGACAGAGTCAC 60
DB 1 GAGCTCCAGTACCCAGTCTCCATCTCCCTGTGCGATCTGTAGAGACAGAGTCAC 60
QY 61 ATCACTTCCGGGCGAGTCAGAGCATTTAGAGCATTTAAATGGTATCAGAGAAACCA 120
DB 61 ATCACTTTCGGGCGAGTCAGAGCATTTAGAGCATTTAGAGCATTTAAATGGTATCAGAGAAACCA 120
QY 121 GGACAGCTCTTACGCTGCTCATTTACTGCGCATTTACCCGGGAATCCGGGTCCTTAC 180
DB 121 GGGAAGCCCTTAAGCTCTTATCTATCTCATCTCAATTTGCAAAAGTGGGTCCTTAC 180
QY 181 CGATTGAGGCGAGGATCTGGGACAAATTAACAATCTCACATCAGAGGCTGAGGCT 240
DB 181 AGTTTCAGGCGAGGATCTGGGACAAATTTCACTTCACATCAGAGGCTGAGGCT 240
QY 241 GAAGATTTTGTACTTACTTTTGTCAACAGTCTGACAGTTTCCGATCAGCTTGGCCAA 300
DB 241 GAAGATTTTGTCAACTTATTTGTCAACAGGCTAACAGTTTCCGATCAGCTTGGCCAA 300
QY 301 GGGACACGACTGGACATTCAA 321
DB 301 GGGACACGACTGGAGATTAA 321


```
RESULT 10
US-10-727-155-155
; Sequence 155, Application US/10727155
; Publication No. US20050049402A1
; GENERAL INFORMATION:
; APPLICANT: John S. Babcock
; APPLICANT: Jaspal S. Kang
; APPLICANT: Orit Foord
; APPLICANT: Larry Green
; APPLICANT: Xiao Feng
; APPLICANT: Scott Klakamp
; APPLICANT: Mary Haak-Frendscho
; APPLICANT: Palaniswami Rathanaswami
; APPLICANT: Craig Pigot
; APPLICANT: Meina Liang
; APPLICANT: Rozanne Lee
; APPLICANT: Kathy Manchulenchio
; APPLICANT: Raffaela Faggioni
; APPLICANT: Giorgio Senaldi
; APPLICANT: Oiaojuan Jane Su
; TITLE OF INVENTION: ANTIBODIES DIRECTED TO TUMOR NECROSIS
; TITLE OF INVENTION: FACTOR AND USES THEREOF
; FILE REFERENCE: ABGENIX.073A
; CURRENT APPLICATION NUMBER: US/10/727,155
; CURRENT FILING DATE: 2003-12-02
; PRIOR APPLICATION NUMBER: 60/430729
; PRIOR FILING DATE: 2002-12-02
; SOFTWARE: FastSeq for Windows Version 4.0
; NUMBER OF SEQ ID NOS: 320
; SEQ ID NO 155
; LENGTH: 321
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-727-155-155

Query Match          74.1%; Score 237.8; DB 21; Length 321;
Best Local Similarity 83.8%; Pred. No. 3.4e-72;
Matches 269; Conservative 0; Mismatches 52; Indels 0; Gaps 0;

QY      1 GAGCTCCAGATGACCCAGTCTCCATCCTCCTGTGTGATCTGTAGAGACAGAGTACC 60
DB      1 GACATCCAGATGACCCAGTCTCCATCCTCCTGTGTGATCTGTAGAGACAGAGTACC 60
QY      61 ATCACTTGGCCGGGAGGAGTCAAGAGCATTTAGAGCTATTAAATTGGTATCAGAGAAACA 120
DB      61 ATCACTTGGCCGGGAGGAGTCAAGAGCATTTAGAGCTATTAAATTGGTATCAGAGAAACA 120
QY      121 GAGACAGCTCTTAAGCTGCTCATTTACTGGGATCTACCCGGGATCCGGGGTCCCTGAC 180
DB      121 GGGAAAGCCCCCTGAGGTCCTGATCTATGCTGATCCAAATTTGCAAGCTGGGGTCCCATCA 180
QY      181 CGATTGAGGGGAGGAGTGAATCTGGGACAAATTACACTCTGACATCAGAGCTGAGCCT 240
DB      181 AGGTTGAGGGGAGGAGTGAATCTGGGACAAATTACACTCTGACATCAGAGCTGAGCCT 240
QY      241 GAAAGATTTGGCTACTTACTTTGTCAACAGTCTGACAGTTTGGCCGATCACTTGGCCAA 300
DB      241 GAAAGATTTGGCACTTACTTACTGTCAACAGAGTTCCAGTACCTTCACCTTGGCCAA 300
QY      301 GGGACACGACTGGAGATTCAA 321
DB      301 GGGACACGACTGGAGATTCAA 321

RESULT 11
US-10-727-155-141
; Sequence 141, Application US/10727155
; Publication No. US20050049402A1
; GENERAL INFORMATION:
; APPLICANT: John S. Babcock
; APPLICANT: Jaspal S. Kang
; APPLICANT: Orit Foord
```

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; APPLICANT: Larry Green
; APPLICANT: Xiao Feng
; APPLICANT: Scott Klakamp
; APPLICANT: Mary Haak-Frendscho
; APPLICANT: Palaniswami Rathanaswami
; APPLICANT: Craig Pigot
; APPLICANT: Meina Liang
; APPLICANT: Rozanne Lee
; APPLICANT: Kathy Manchulenchio
; APPLICANT: Raffaela Faggioni
; APPLICANT: Giorgio Senaldi
; APPLICANT: Oiaojuan Jane Su
; TITLE OF INVENTION: ANTIBODIES DIRECTED TO TUMOR NECROSIS
; TITLE OF INVENTION: FACTOR AND USES THEREOF
; FILE REFERENCE: ABGENIX.073A
; CURRENT APPLICATION NUMBER: US/10/727,155
; CURRENT FILING DATE: 2003-12-02
; PRIOR APPLICATION NUMBER: 60/430729
; PRIOR FILING DATE: 2002-12-02
; NUMBER OF SEQ ID NOS: 320
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 141
; LENGTH: 321
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-727-155-141

Query Match          73.6%; Score 236.2; DB 21; Length 321;
Best Local Similarity 83.5%; Pred. No. 1.2e-71;
Matches 268; Conservative 0; Mismatches 53; Indels 0; Gaps 0;

QY      1 GAGCTCCAGATGACCCAGTCTCCATCCTCCTGTGTGATCTGTAGAGACAGAGTACC 60
DB      1 GACATCCAGATGACCCAGTCTCCATCCTCCTGTGTGATCTGTAGAGACAGAGTACC 60
QY      61 ATCACTTGGCCGGGAGGAGTCAAGAGCATTTAGAGCTATTAAATTGGTATCAGAGAAACA 120
DB      61 ATCACTTGGCCGGGAGGAGTCAAGAGCATTTAGAGCTATTAAATTGGTATCAGAGAAACA 120
QY      121 GAGACAGCTCTTAAGCTGCTCATTTACTGGGATCTACCCGGGATCCGGGGTCCCTGAC 180
DB      121 GGGAAAGCCCCCTGAGGTCCTGATCTATGCTGATCCAAATTTGCAAGTGGGGTCCCATCA 180
QY      181 CGATTGAGGGGAGGAGTGAATCTGGGACAAATTACACTCTGACATCAGAGCTGAGCCT 240
DB      181 AGGTTGAGGGGAGGAGTGAATCTGGGACAAATTACACTCTGACATCAGAGCTGAGCCT 240
QY      241 GAAAGATTTGGCTACTTACTTTGTCAACAGTCTGACAGTTTGGCCGATCACTTGGCCAA 300
DB      241 GAAAGATTTGGCACTTACTTACTGTCAACAGAGTTCCAGTACCTTCACCTTGGCCAA 300
QY      301 GGGACACGACTGGAGATTCAA 321
DB      301 GGGACACGACTGGAGATTCAA 321

RESULT 12
US-10-727-155-159
; Sequence 159, Application US/10727155
; Publication No. US20050049402A1
; GENERAL INFORMATION:
; APPLICANT: John S. Babcock
; APPLICANT: Jaspal S. Kang
; APPLICANT: Orit Foord
; APPLICANT: Larry Green
; APPLICANT: Xiao Feng
; APPLICANT: Scott Klakamp
; APPLICANT: Mary Haak-Frendscho
; APPLICANT: Palaniswami Rathanaswami
; APPLICANT: Craig Pigot
; APPLICANT: Meina Liang
; APPLICANT: Rozanne Lee
; APPLICANT: Kathy Manchulenchio
```

```
/ APPLICANT: Raffaeella Faggioni
/ APPLICANT: Giorgio Senaldi
/ APPLICANT: Orlaio Jane Su
/ TITLE OF INVENTION: ANTIBODIES DIRECTED TO TUMOR NECROSIS
/ TITLE OF INVENTION: FACTOR AND USES THEREOF
/ FILE REFERENCE: ABGENIX.073A
/ CURRENT APPLICATION NUMBER: US/10/727,155
/ CURRENT FILING DATE: 2003-12-02
/ PRIOR APPLICATION NUMBER: 60/430729
/ PRIOR FILING DATE: 2002-12-02
/ NUMBER OF SEQ ID NOS: 320
/ SOFTWARE: FastSeq for Windows Version 4.0
/ SEQ ID NO 159
/ LENGTH: 321
/ TYPE: DNA
/ ORGANISM: Homo sapiens
US-10-727-155-159
```

```
Query Match
Best Local Similarity 73.6%; Score 236.2; DB 21; Length 321;
Matches 268; Conservative 0; Mismatches 53; Indels 0; Gaps 0;
```

```
QY 1 GAGCTCCAGATGACCCAGTCTCATCTCCCTGTCTGCACTGTGTAGAGACAGAGTCACC 60
DB 1 GACATCCAGATGACCCAGTCTCATCTCCCTGTCTGCACTGTGTAGAGACAGAGTCACC 60
QY 61 ATCACTTGGCCGGGCAAGTCAAGATTTAGATTTAAATTTGGTATCAGAGAAACCA 120
DB 61 ATCACTTGGCCGGGCAAGTCAAGATTTAGATTTAAATTTGGTATCAGAGAAACCA 120
QY 121 GGACAGCTCTCTAAGTCTCATTTTACTGTGGCATCTACCCGGGAATCCGGGTCCCTGAC 180
DB 121 GGGAAGCCCTCGAATCTCGATCTATGCGCATTTAAATTTGAAAGTGGGGTCCCATCA 180
QY 181 CGATTAGCGGCGAGTGAATCTGGGCAAAATTACACTCTACCATCGACGCTCGACGCT 240
DB 181 AGGATCAGCGGCGAGTGAATCTGGGCAAAATTACACTCTACCATCGACGCTCGACGCT 240
QY 241 GAAGATTTTGCTACTTACTTTGTCAACAGTCTGACAGATTTGGCGATCCCTTGGCCAA 300
DB 241 GAAGATTTTGCAACTTACTTACTTTGTCAACAGATTTGCAAGATTTCCATCCTTGGCCAA 300
QY 301 GGGACACGACTGGAGATTCAA 321
DB 301 GGGACACGACTGGAGATTCAA 321
```

```
RESULT 13
US-10-309-762-213
/ Sequence 213, Application US/10309762
/ Publication No. US20040018198A1
/ GENERAL INFORMATION:
/ APPLICANT: Gudas, Jean
/ APPLICANT: Foltz, Ian
/ APPLICANT: Handa, Masahisa
/ APPLICANT: Gallo, Michael
/ TITLE OF INVENTION: ANTIBODIES AGAINST CARBOXYIC ANHYDRASE IX
/ TITLE OF INVENTION: (CA IX) TUMOR ANTIGEN
/ FILE REFERENCE: ABGENIX.027A
/ CURRENT APPLICATION NUMBER: US/10/309,762
/ CURRENT FILING DATE: 2002-12-02
/ PRIOR APPLICATION NUMBER: 60/337275
/ PRIOR FILING DATE: 2001-12-03
/ NUMBER OF SEQ ID NOS: 246
/ SOFTWARE: FastSeq for Windows Version 4.0
/ SEQ ID NO 213
/ LENGTH: 322
/ TYPE: DNA
/ ORGANISM: Homo sapiens
US-10-309-762-213
```

```
Query Match
Best Local Similarity 73.6%; Score 236.2; DB 17; Length 322;
Matches 268; Conservative 0; Mismatches 53; Indels 0; Gaps 0;
```

```
Matches 268; Conservative 0; Mismatches 53; Indels 0; Gaps 0;
QY 1 GAGCTCCAGATGACCCAGTCTCATCTCCCTGTCTGCACTGTGTAGAGACAGAGTCACC 60
DB 1 GACATCCAGATGACCCAGTCTCATCTCCCTGTCTGCACTGTGTAGAGACAGAGTCACC 60
QY 61 ATCACTTGGCCGGGCAAGTCAAGATTTAGATTTAAATTTGGTATCAGAGAAACCA 120
DB 61 ATCACTTGGCCGGGCAAGTCAAGATTTAGATTTAAATTTGGTATCAGAGAAACCA 120
QY 121 GGACAGCTCTCTAAGTCTCATTTTACTGTGGCATCTACCCGGGAATCCGGGTCCCTGAC 180
DB 121 GGGAAGCCCTCGAATCTCGATCTATGCGCATTTAAATTTGAAAGTGGGGTCCCATCA 180
QY 181 CGATTAGCGGCGAGTGAATCTGGGCAAAATTACACTCTACCATCGACGCTCGACGCT 240
DB 181 AGGATCAGCGGCGAGTGAATCTGGGCAAAATTACACTCTACCATCGACGCTCGACGCT 240
QY 241 GAAGATTTTGCTACTTACTTTGTCAACAGTCTGACAGATTTGGCGATCCCTTGGCCAA 300
DB 241 GAAGATTTTGCAACTTACTTACTTTGTCAACAGATTTGCAAGATTTCCATCCTTGGCCAA 300
QY 301 GGGACACGACTGGAGATTCAA 321
DB 301 GGGACACGACTGGAGATTCAA 321
```

```
RESULT 14
US-10-309-762-238
/ Sequence 238, Application US/10309762
/ Publication No. US20040018198A1
/ GENERAL INFORMATION:
/ APPLICANT: Gudas, Jean
/ APPLICANT: Foltz, Ian
/ APPLICANT: Handa, Masahisa
/ APPLICANT: Gallo, Michael
/ TITLE OF INVENTION: ANTIBODIES AGAINST CARBOXYIC ANHYDRASE IX
/ TITLE OF INVENTION: (CA IX) TUMOR ANTIGEN
/ FILE REFERENCE: ABGENIX.027A
/ CURRENT APPLICATION NUMBER: US/10/309,762
/ CURRENT FILING DATE: 2002-12-02
/ PRIOR APPLICATION NUMBER: 60/337275
/ PRIOR FILING DATE: 2001-12-03
/ NUMBER OF SEQ ID NOS: 246
/ SOFTWARE: FastSeq for Windows Version 4.0
/ SEQ ID NO 238
/ LENGTH: 322
/ TYPE: DNA
/ ORGANISM: Homo sapiens
US-10-309-762-238
```

```
Query Match
Best Local Similarity 73.6%; Score 236.2; DB 17; Length 322;
Matches 268; Conservative 0; Mismatches 53; Indels 0; Gaps 0;
```

```
QY 1 GAGCTCCAGATGACCCAGTCTCATCTCCCTGTCTGCACTGTGTAGAGACAGAGTCACC 60
DB 1 GACATCCAGATGACCCAGTCTCATCTCCCTGTCTGCACTGTGTAGAGACAGAGTCACC 60
QY 61 ATCACTTGGCCGGGCAAGTCAAGATTTAGATTTAAATTTGGTATCAGAGAAACCA 120
DB 61 ATCACTTGGCCGGGCAAGTCAAGATTTAGATTTAAATTTGGTATCAGAGAAACCA 120
QY 121 GGACAGCTCTCTAAGTCTCATTTTACTGTGGCATCTACCCGGGAATCCGGGTCCCTGAC 180
DB 121 GGGAAGCCCTCGAATCTCGATCTATGCGCATTTAAATTTGAAAGTGGGGTCCCATCA 180
QY 181 CGATTAGCGGCGAGTGAATCTGGGCAAAATTACACTCTACCATCGACGCTCGACGCT 240
DB 181 AGGATCAGCGGCGAGTGAATCTGGGCAAAATTACACTCTACCATCGACGCTCGACGCT 240
QY 241 GAAGATTTTGCTACTTACTTTGTCAACAGTCTGACAGATTTGGCGATCCCTTGGCCAA 300
DB 241 GAAGATTTTGCAACTTACTTACTTTGTCAACAGTCTGCAAGATTTCCATCCTTGGCCAA 300
```

Db 241 GAAGATTTGCACTTACTATTTGCAACAGGCTAACAGTTTCCCTATACCTTGGCCAA 300
QY 301 ||||| 321
Db 301 GGGACACGACTGGAGATTAA 321

RESULT 15
US-10-644-277-55

/ Sequence 55, Application US/10644277
/ Publication No. US20050058639A1
/ GENERAL INFORMATION:
/ APPLICANT: Gudas, Jean M.
/ APPLICANT: Haak-Frendelcho, Mary
/ APPLICANT: Ford, Orit
/ APPLICANT: Liang, Weina L.
/ APPLICANT: Ahluwalia, Kiran
/ APPLICANT: Bhakta, Sunil
/ TITLE OF INVENTION: ANTIBODIES DIRECTED TO MONOCYTE
/ TITLE OF INVENTION: CHEMO-ATTRACTANT PROTEIN-1 (MCP-1) AND USES THEREOF
/ FILE REFERENCE: ABGENIX.091A
/ CURRENT APPLICATION NUMBER: US/10/644,277
/ PRIOR FILING DATE: 2003-08-19
/ PRIOR APPLICATION NUMBER: 60/404,802
/ NUMBER OF SEQ ID NOS: 149
/ SOFTWARE: FastSeq for Windows Version 4.0
/ SEQ ID NO 55
/ LENGTH: 458
/ TYPE: DNA
/ ORGANISM: Homosapien
US-10-644-277-55

Query Match 73.6%; Score 236.2; DB 21; Length 458;
Best Local Similarity 83.5%; Pred. No. 1.4e-71;
Matches 268; Conservative 0; Mismatches 53; Indels 0; Gaps 0;

QY 1 GAGCTCCAGATGACCCAGTCTCATCTCCCTGTCATCTGCTAGAGACAGATCACC 60
|||
Db 1 GACATCCAGATGACCCAGTCTCATCTCCCTGTCATCTGCTAGAGACAGATCACC 60
QY 61 ATCACTTGGCGGCAAGTCAAGACATTAGCAGCTATTAAATTGTATCAGAGAACA 120
|||
Db 61 ATCACTTGGCGGCAAGTCAAGACATTAGCAGCTATTAAATTGTATCAGAGAACA 120
QY 121 GGAAGCCTCTTAAGTGTCTATTACTGGGCACTTACCAGGATCCGGGCTCCTGAC 180
|||
Db 121 GGAAGCCTCTTAAGTGTCTATTACTGGGCACTTACCAGGATCCGGGCTCCTGAC 180
QY 181 CGATTGAGGGGCGATGATCTGGACAAATTACCTCAGCATCAGACGCTGACGCT 240
|||
Db 181 AGGTTAGTGAAGTGAATCTGGACAGATTTTACCTTCAACATCAGACGCTGACGCT 240
QY 241 GAAAGATTTTGTCTTACTTTTGTCAACAGTGTGACAGTTTGGCGATCCTTGGCCAA 300
|||
Db 241 GAAAGATTTTGTCTTACTTTTGTCAACAGTGTGACAGTTTGGCGATCCTTGGCCAA 300
QY 301 GGGACACGACTGGACATTCAA 321
|||
Db 301 GGGACACGACTGGACATTCAA 321

Search completed: September 12, 2005, 02:01:34
Job time : 510.25 secs

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